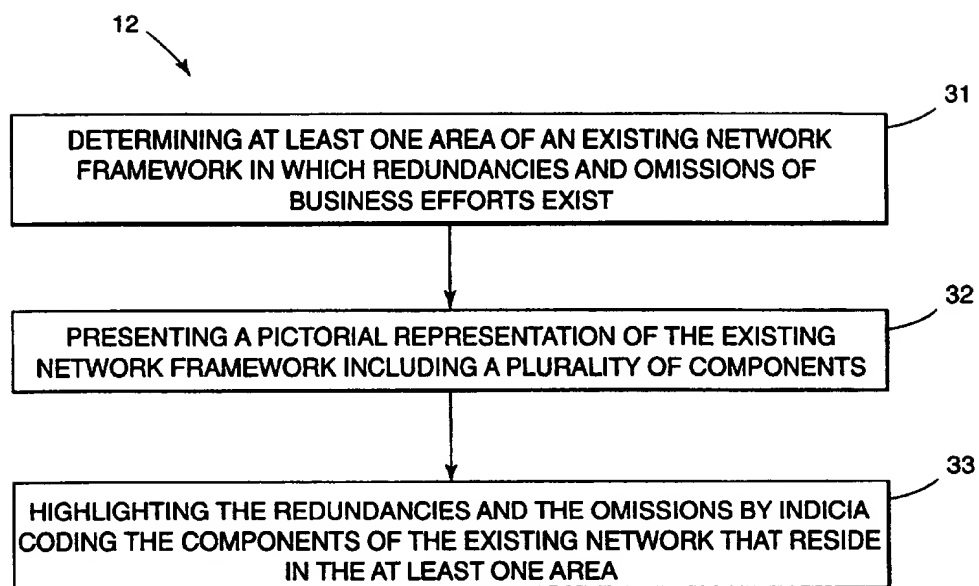
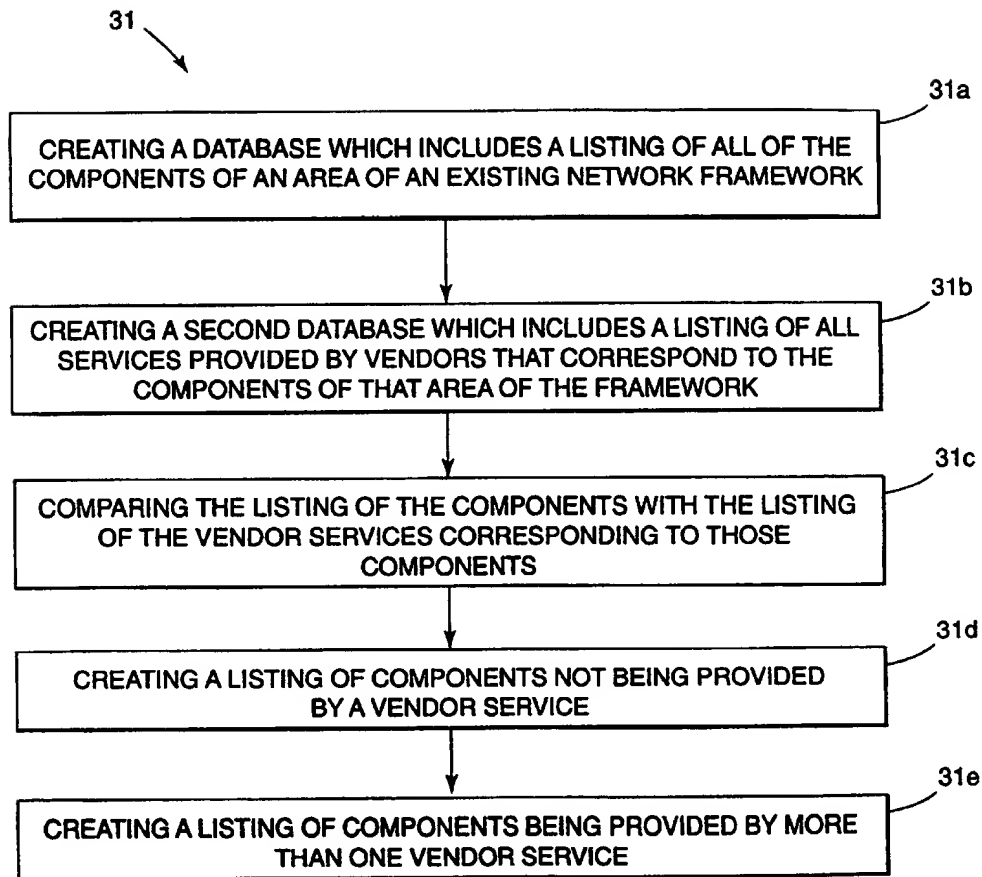


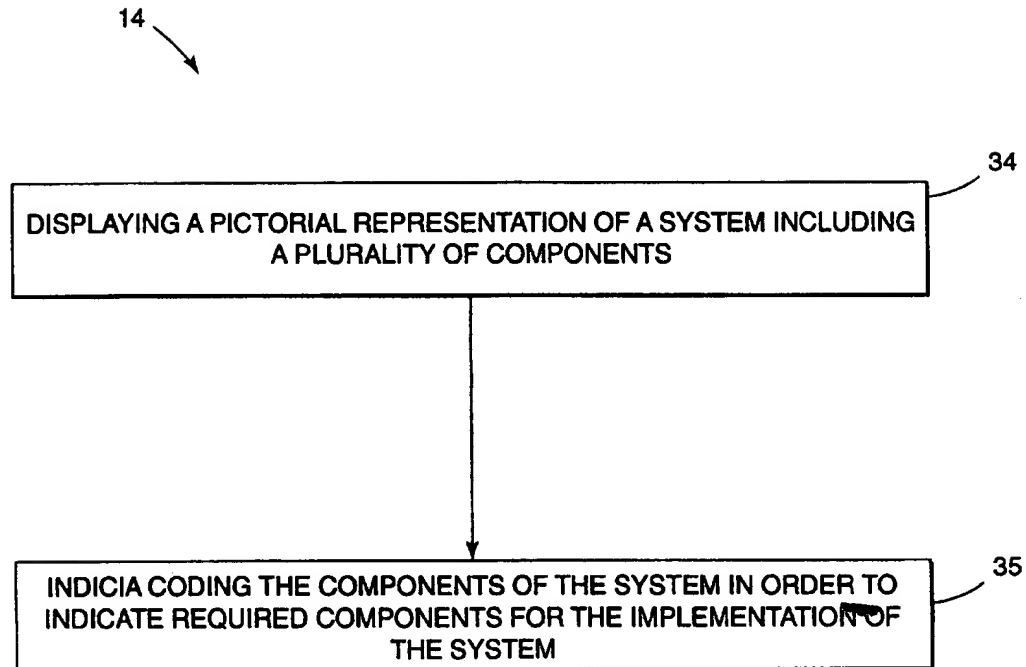
*Fig. 1*



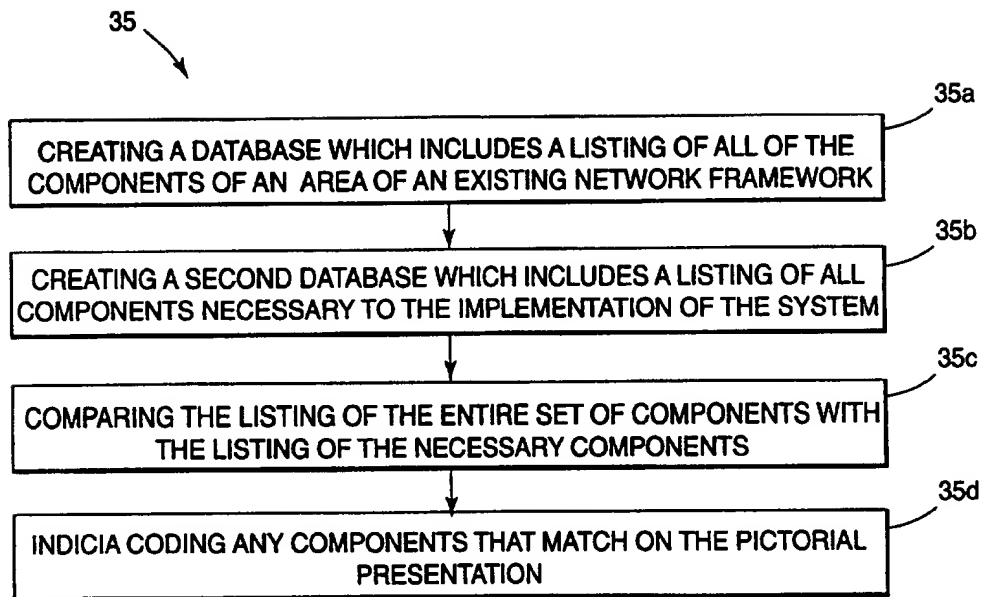
*Fig. 2*



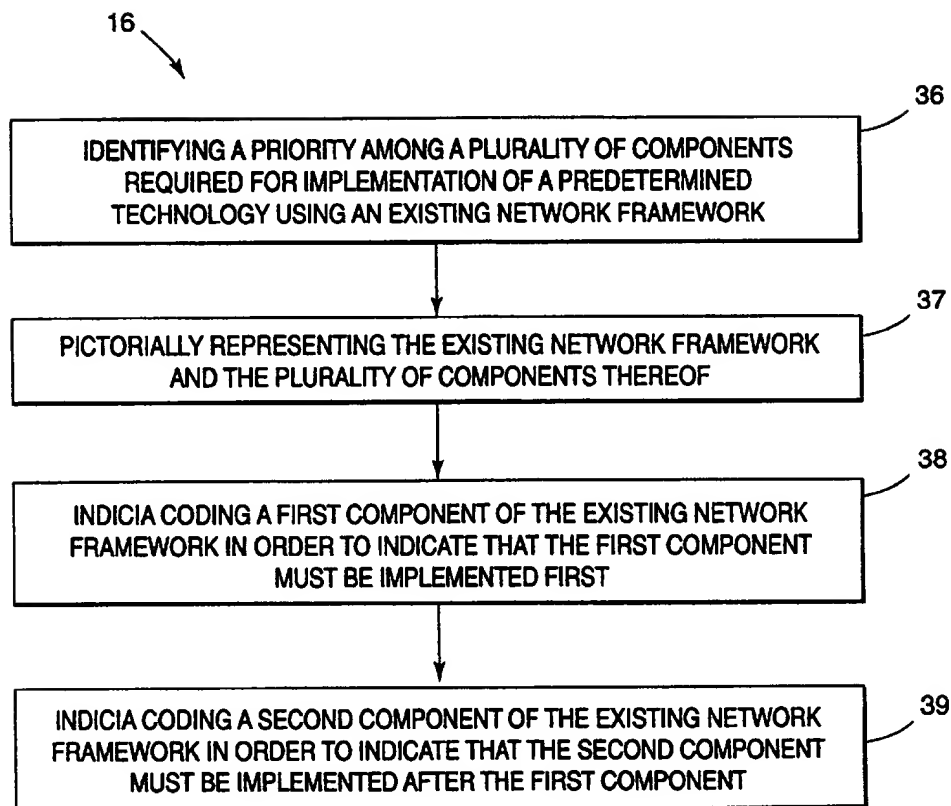
*Fig. 3*



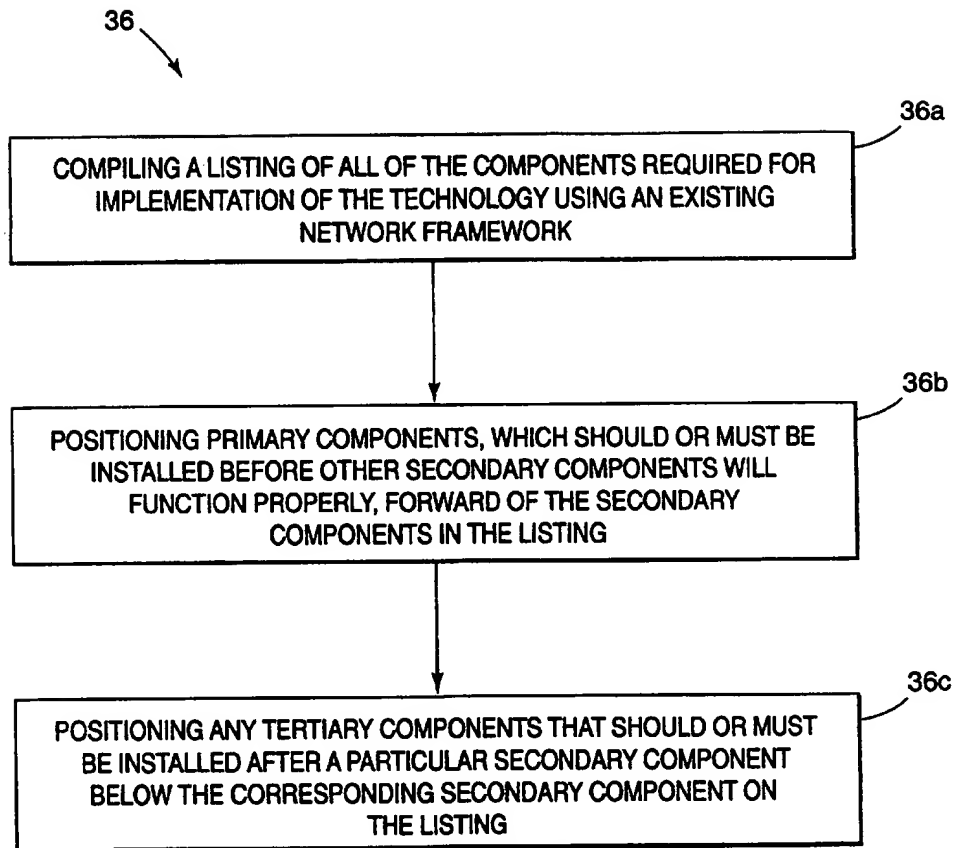
*Fig. 4*



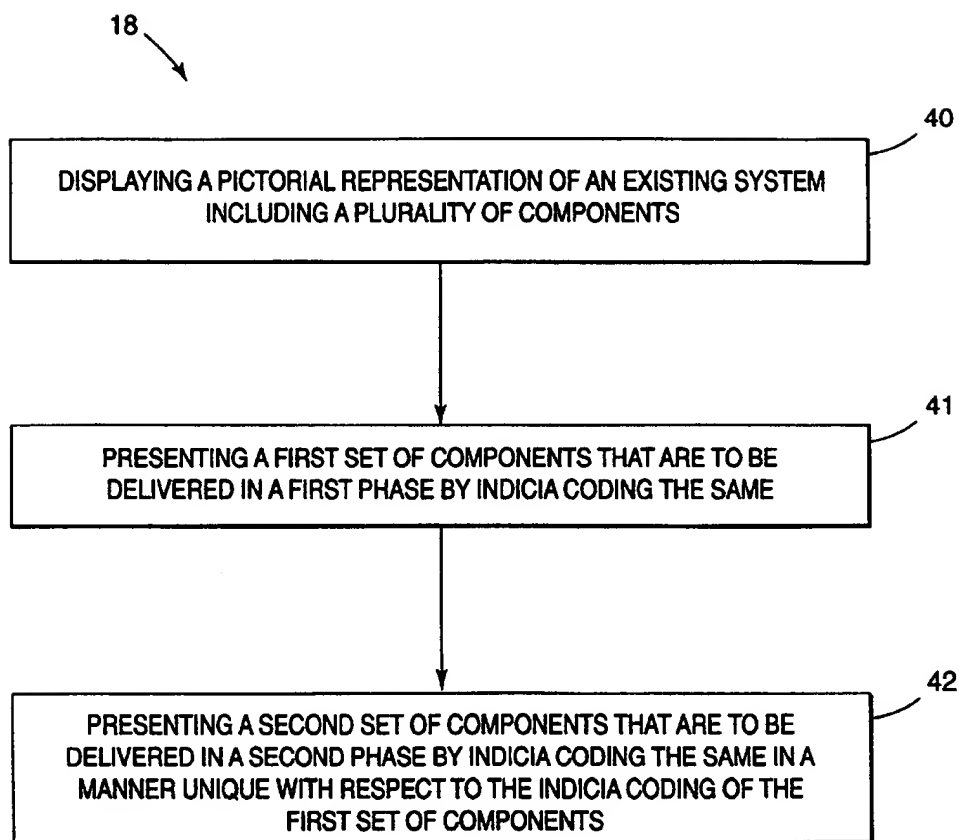
*Fig. 5*



*Fig. 6*

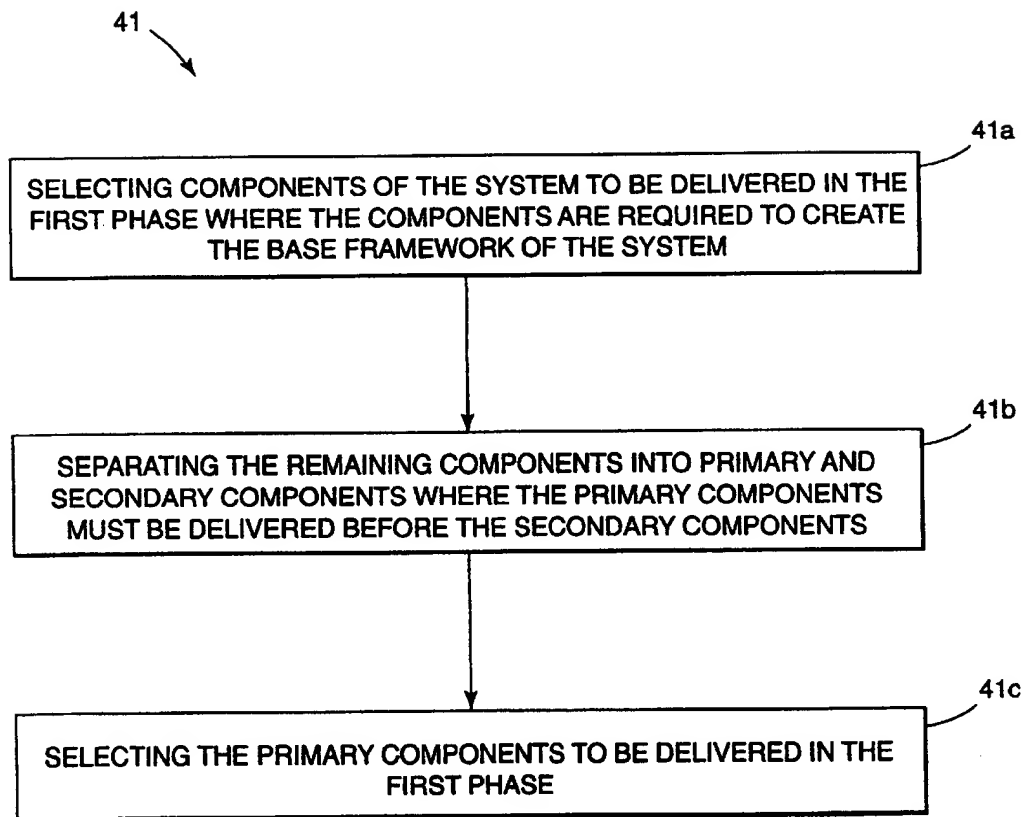


*Fig. 7*

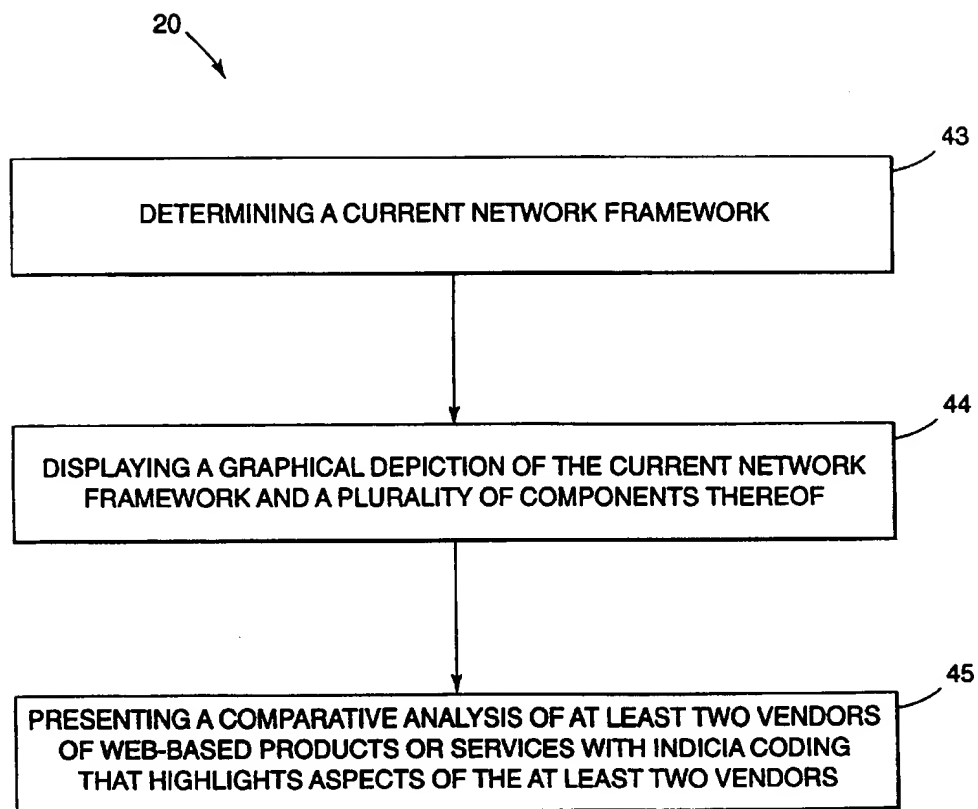


*Fig. 8*

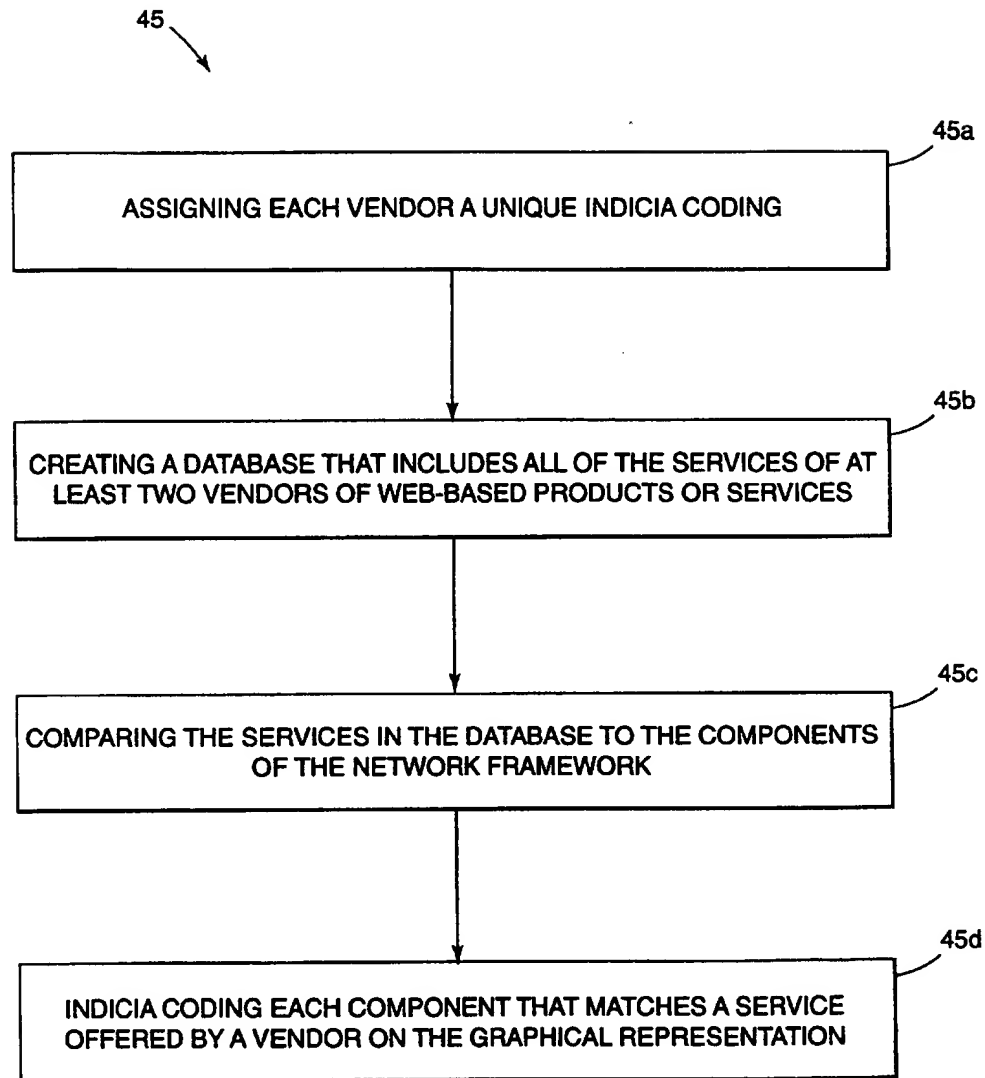




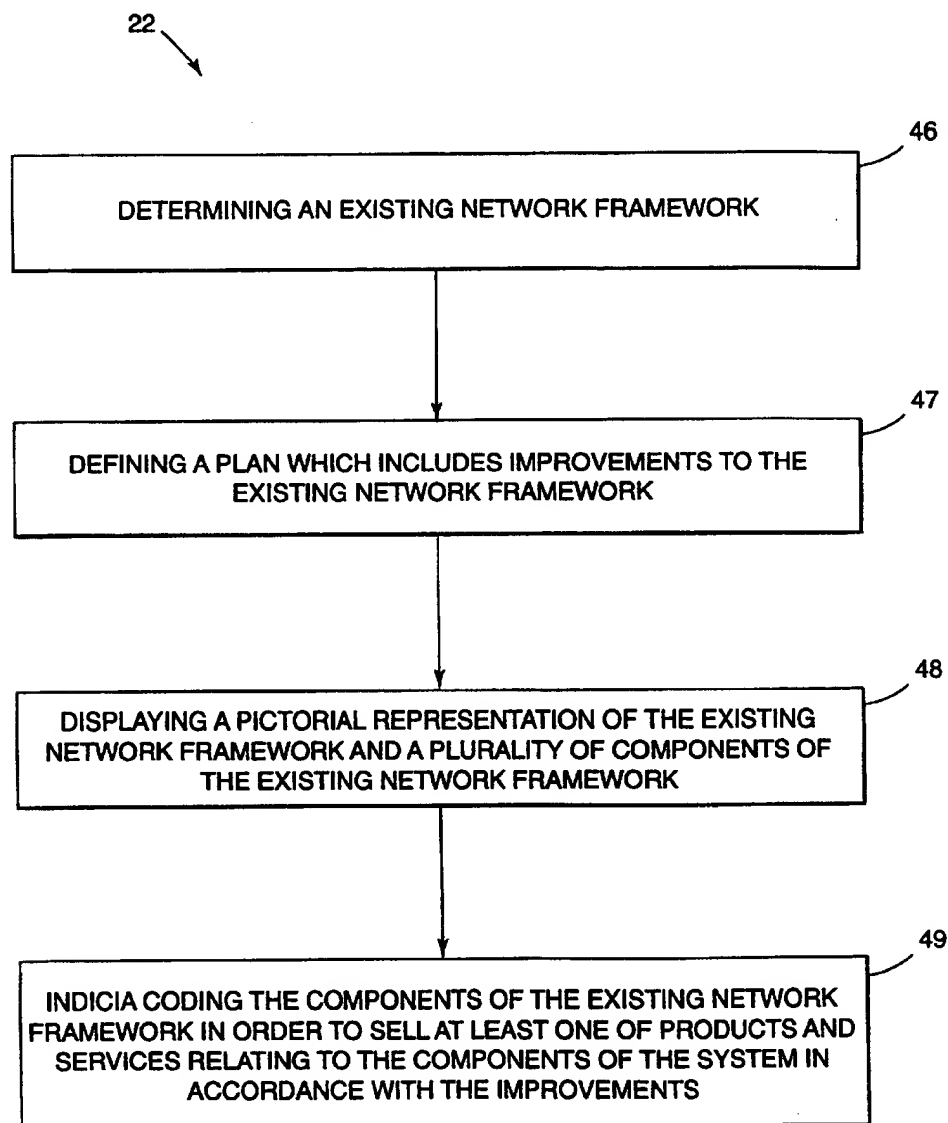
*Fig. 9*



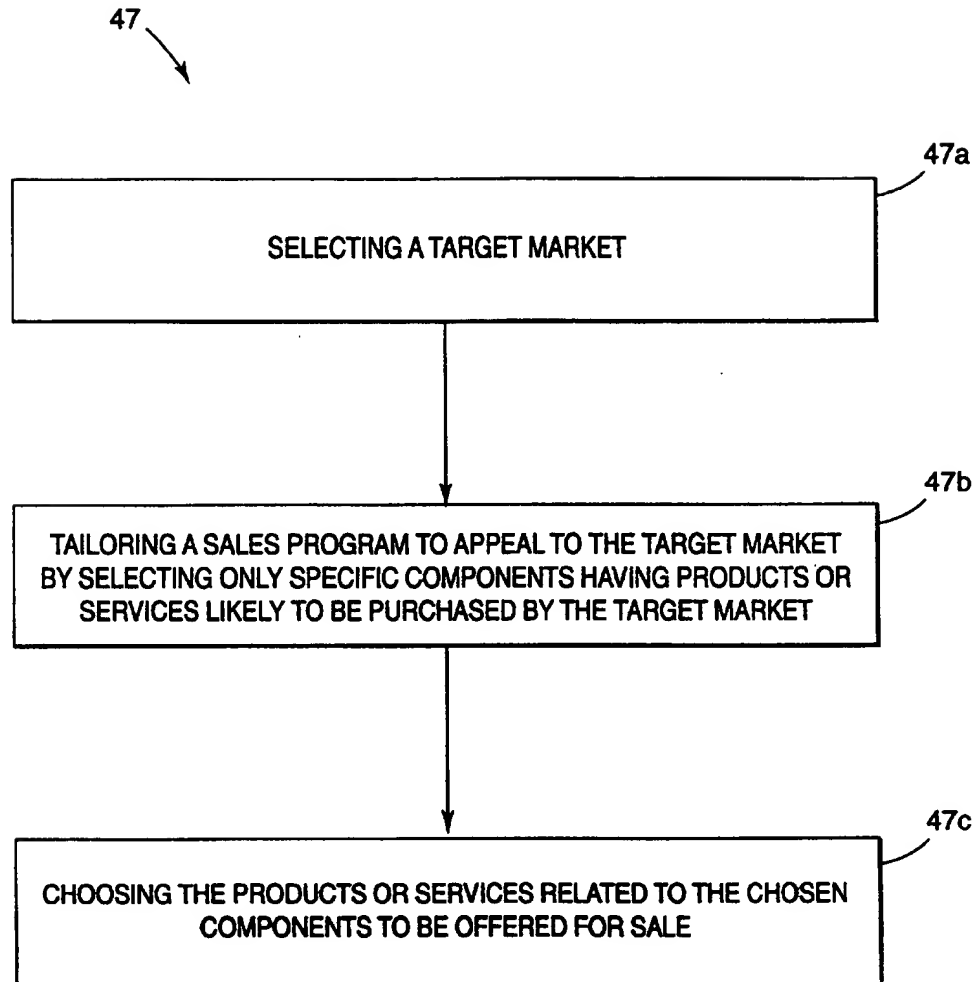
*Fig. 10*



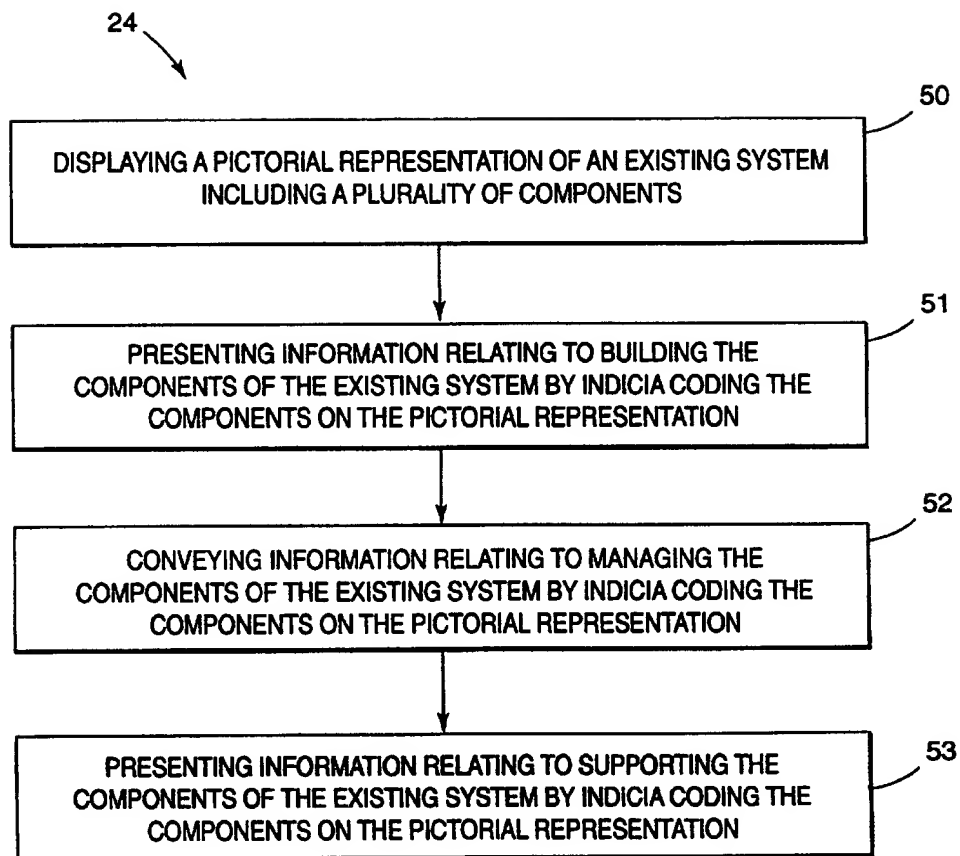
*Fig. 11*



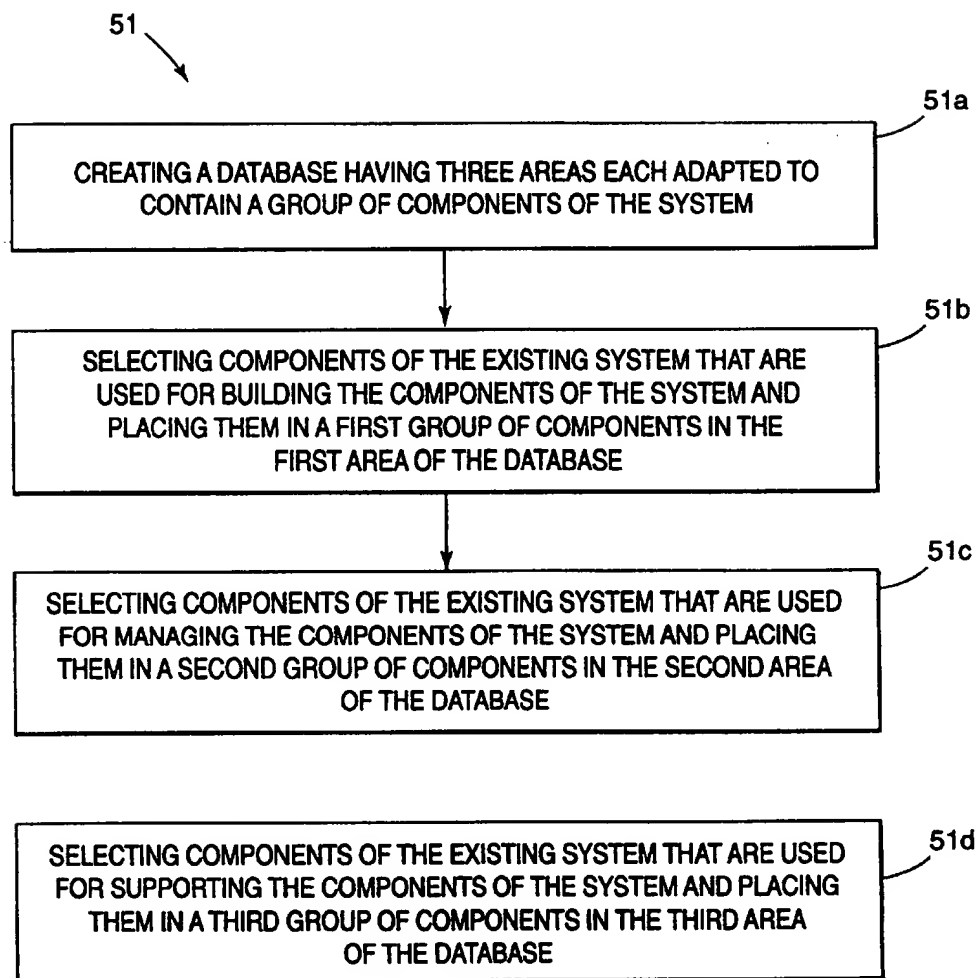
*Fig. 12*



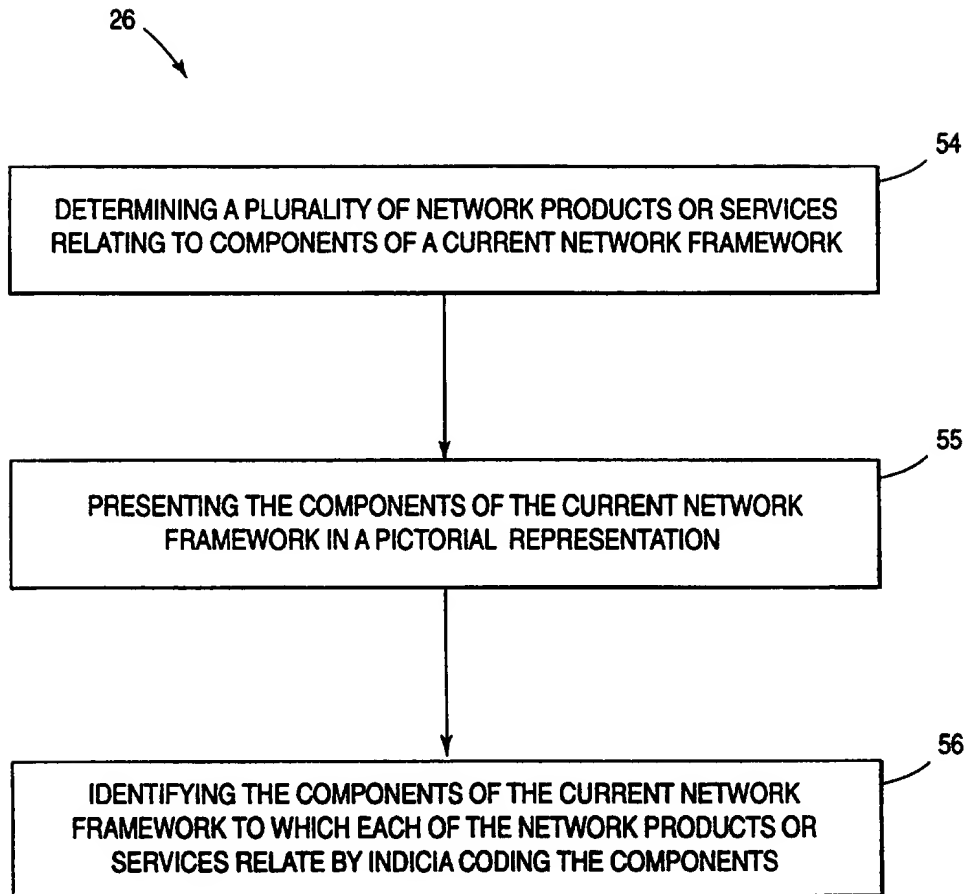
*Fig. 13*



*Fig. 14*

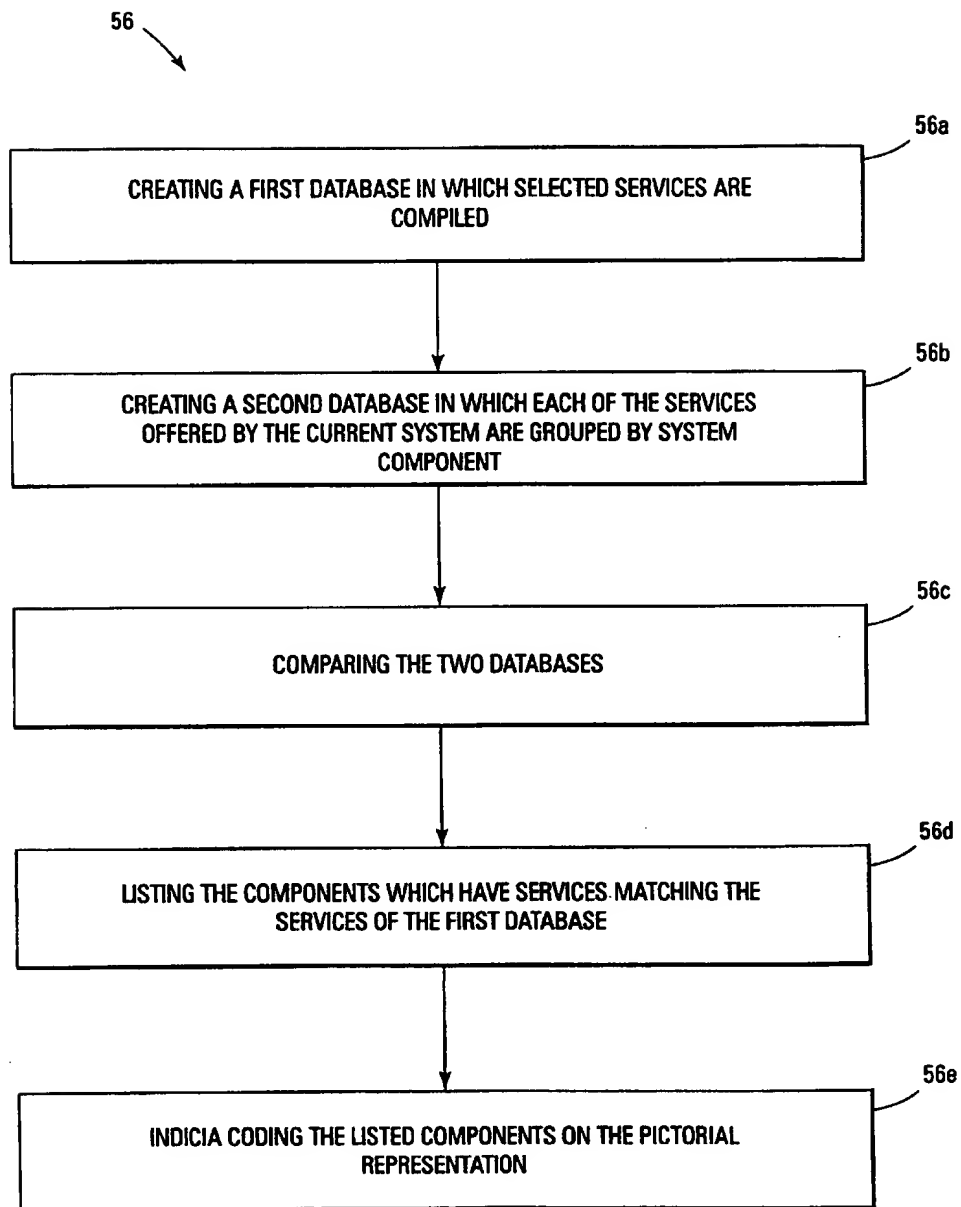


*Fig. 15*

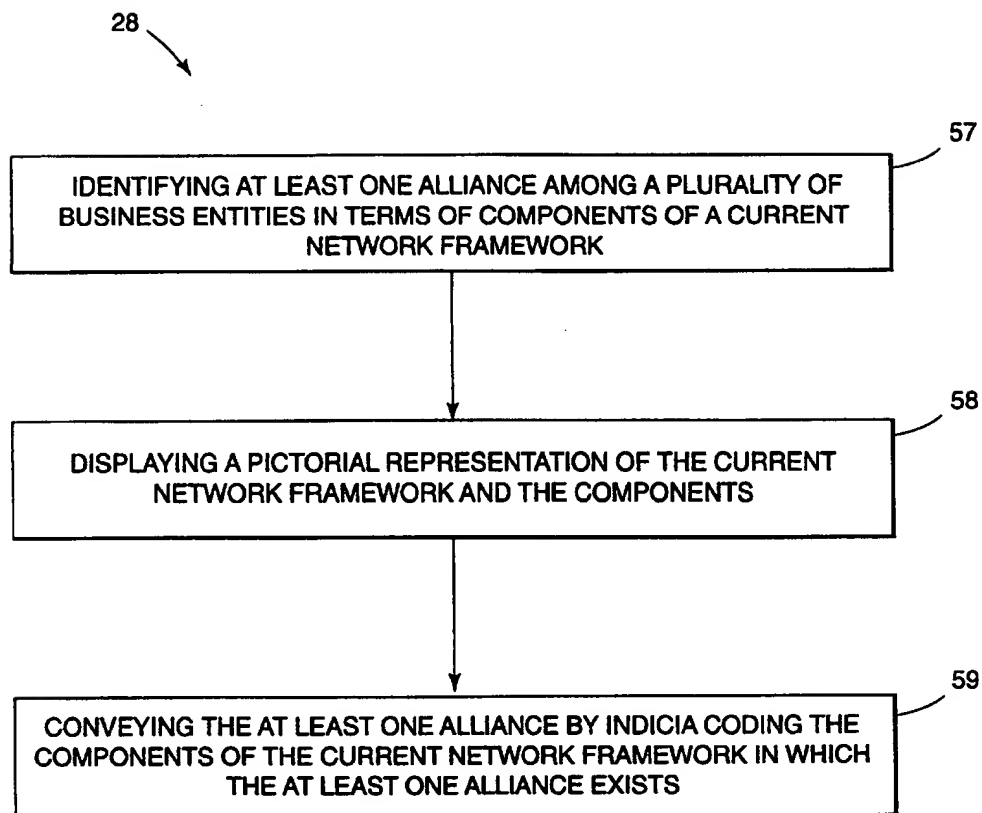


*Fig. 16*

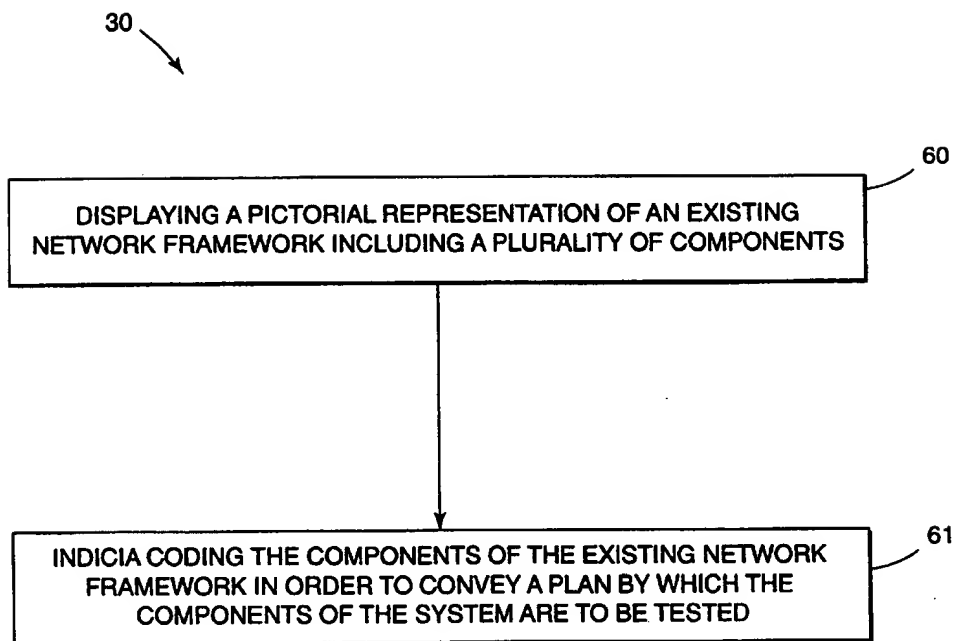




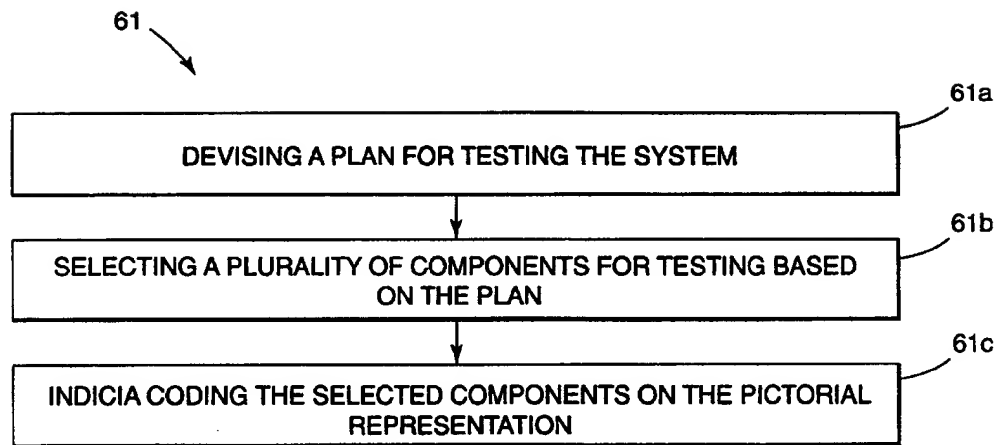
*Fig. 17*



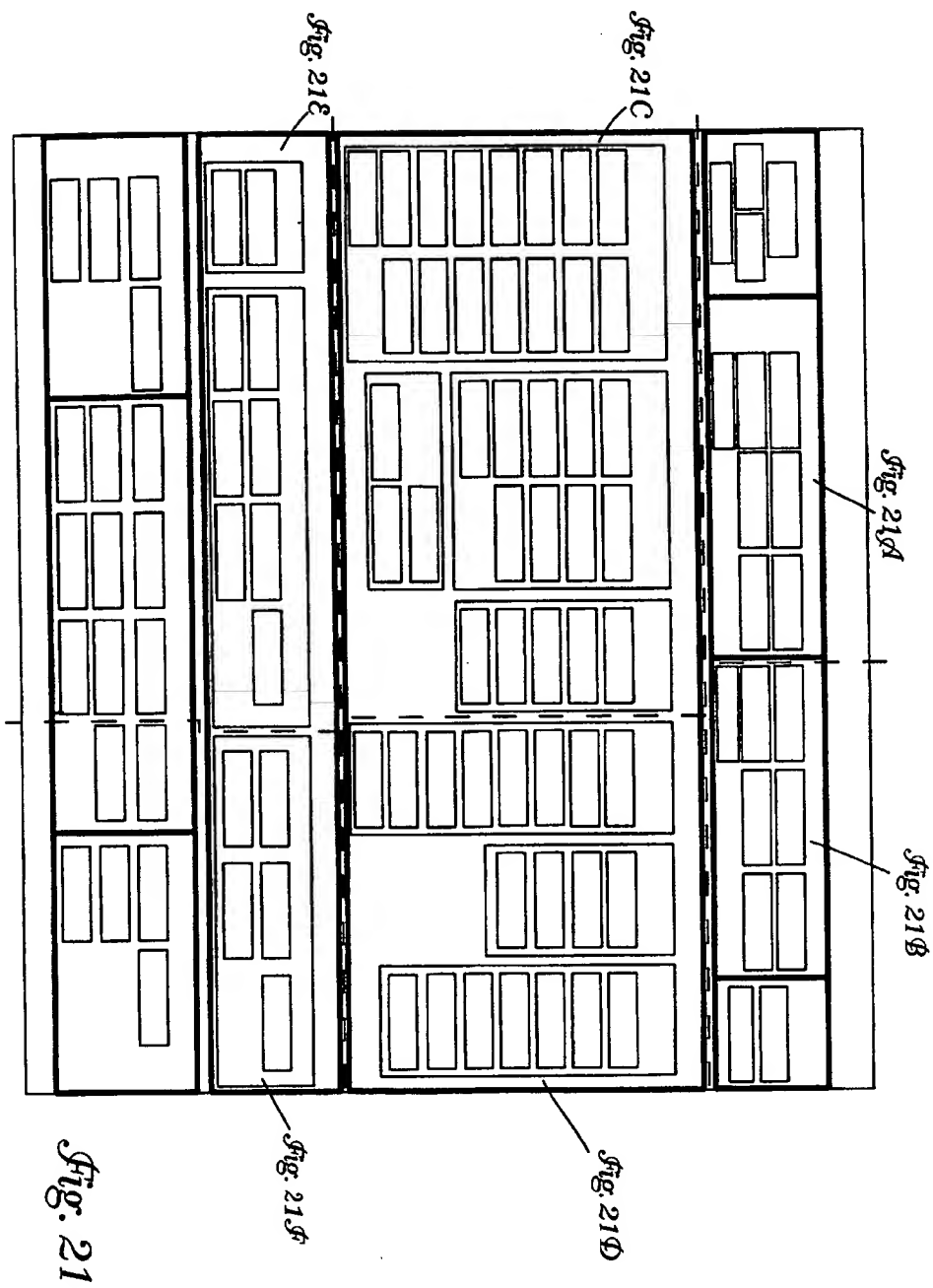
*Fig. 18*

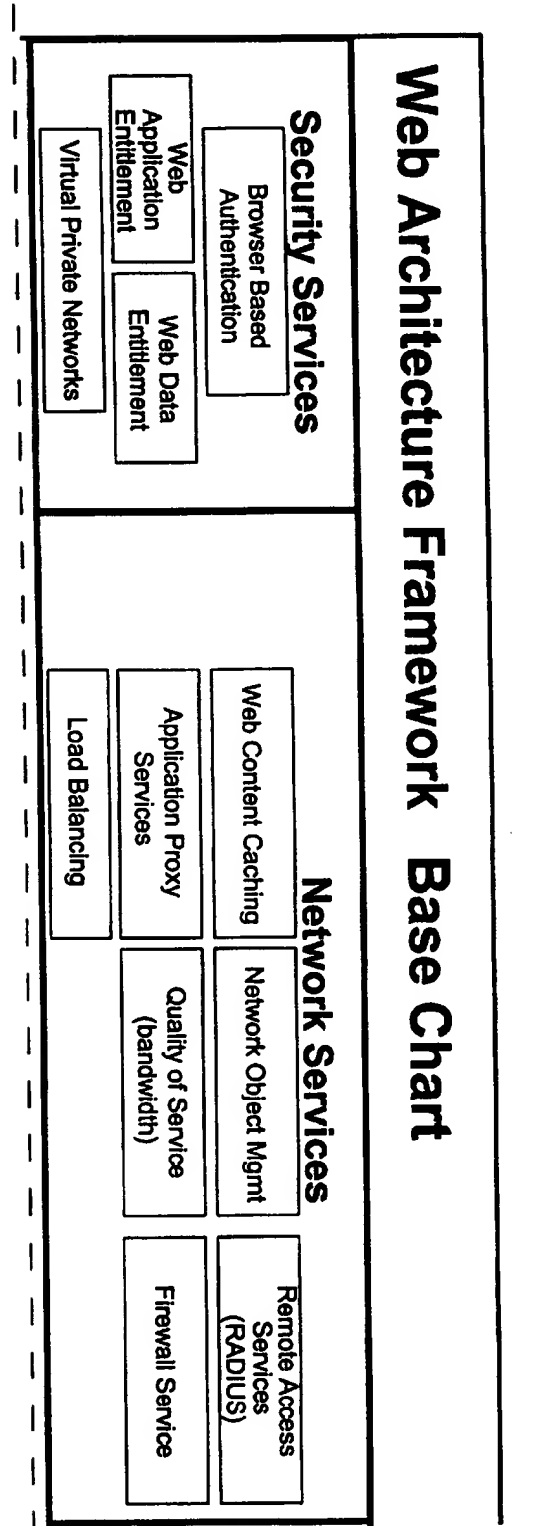


*Fig. 19*

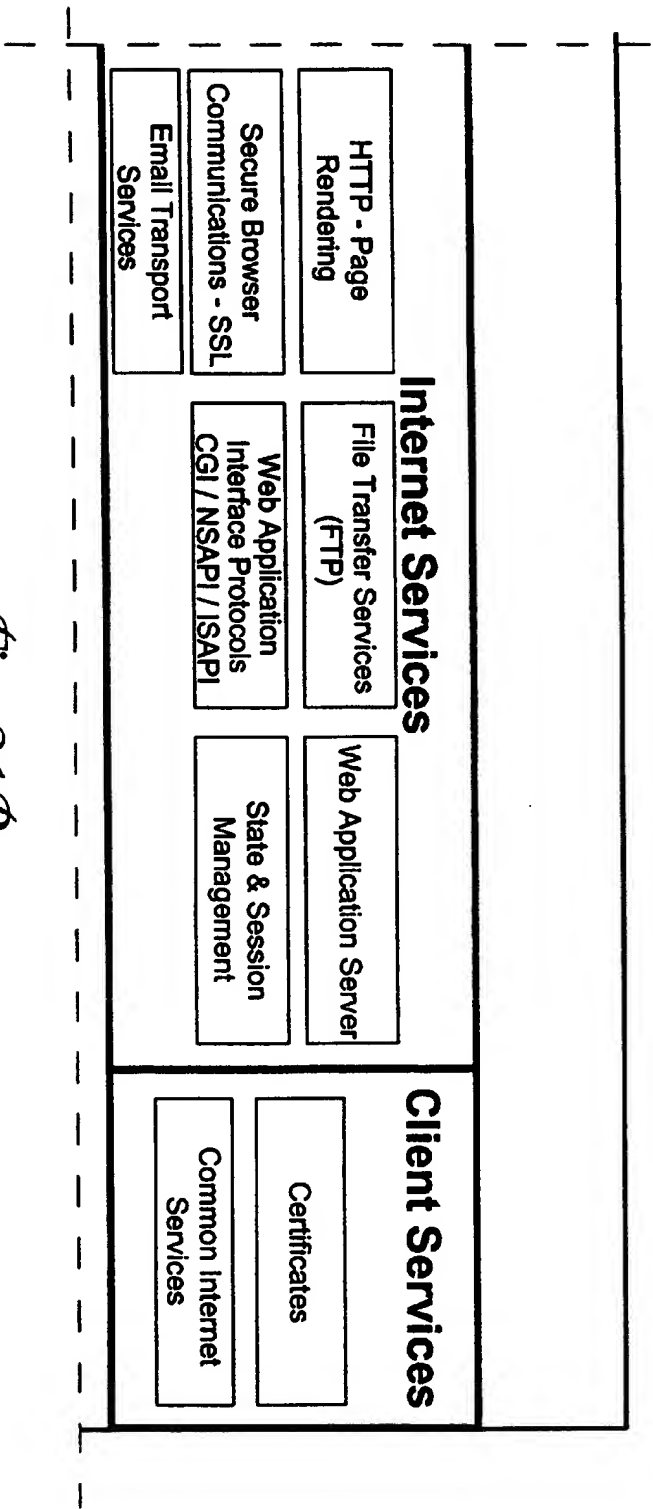


*Fig. 20*





*Fig. 21A*



*Fig. 21B*

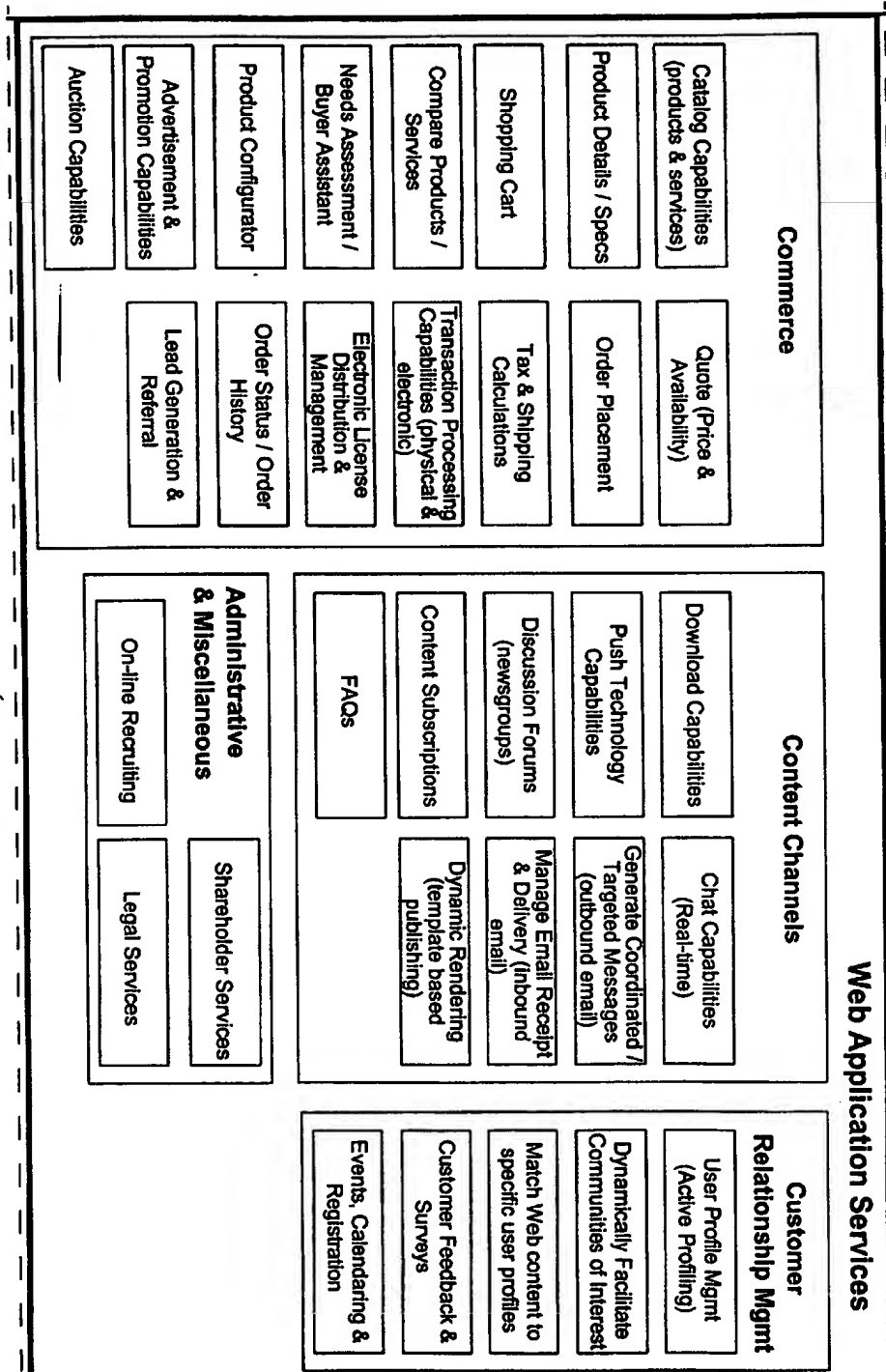


Fig. 21C



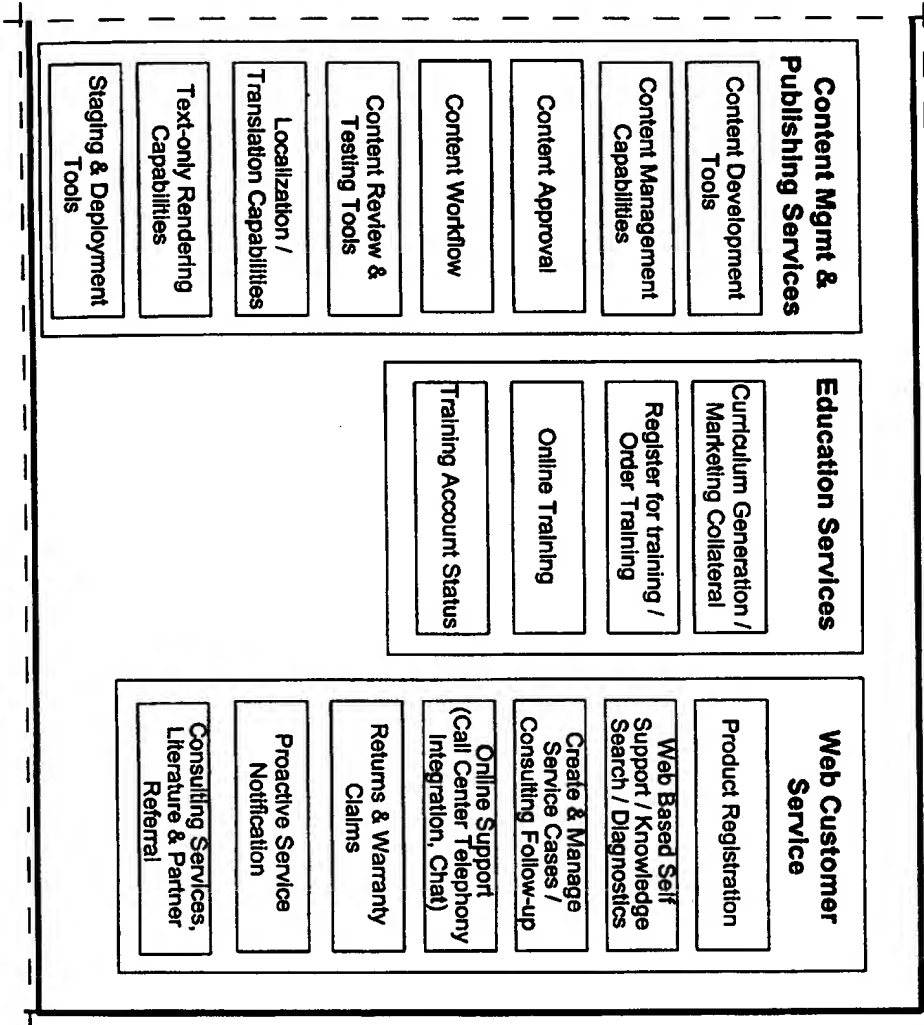


Fig. 21D

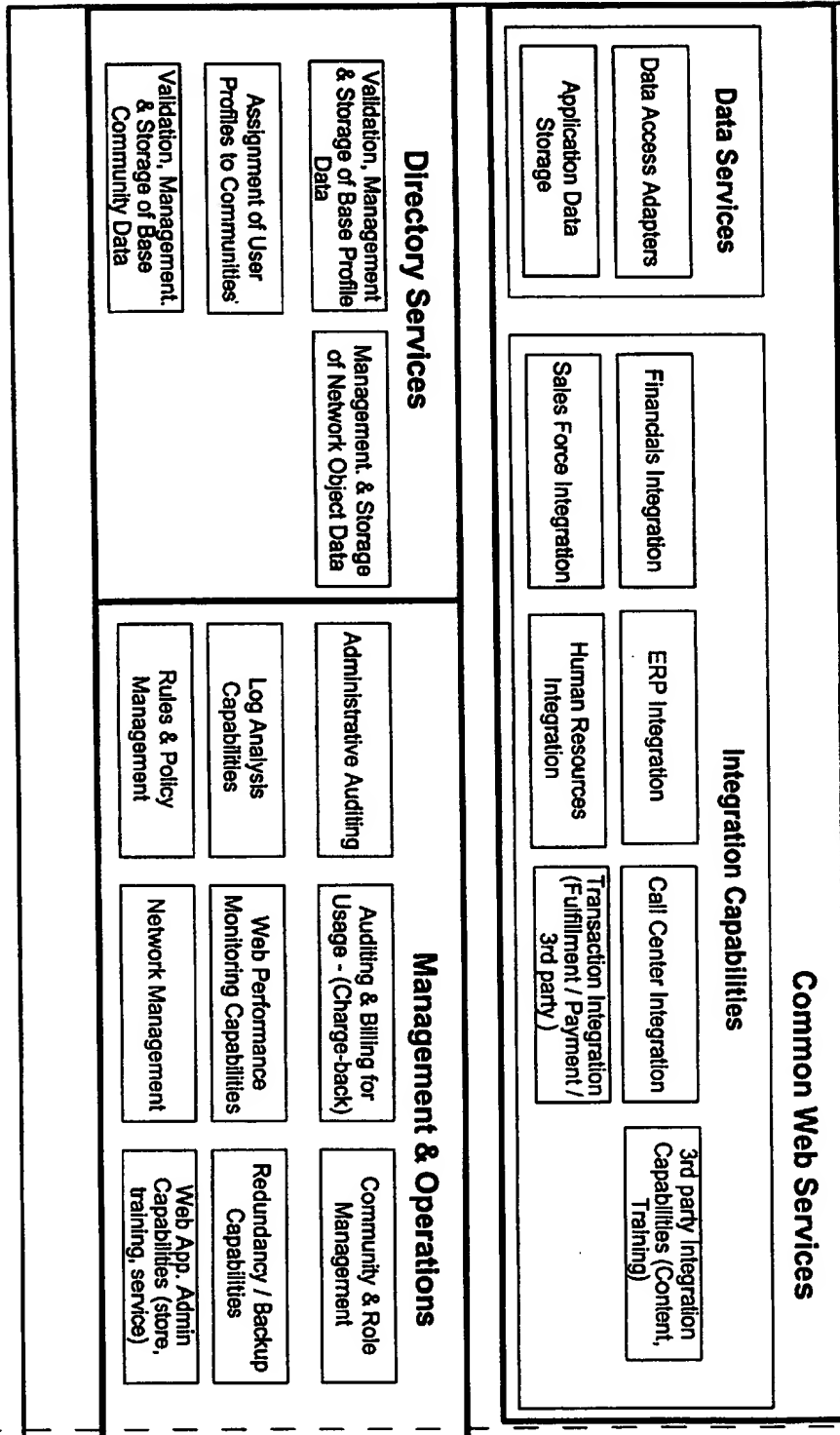


Fig. 21C

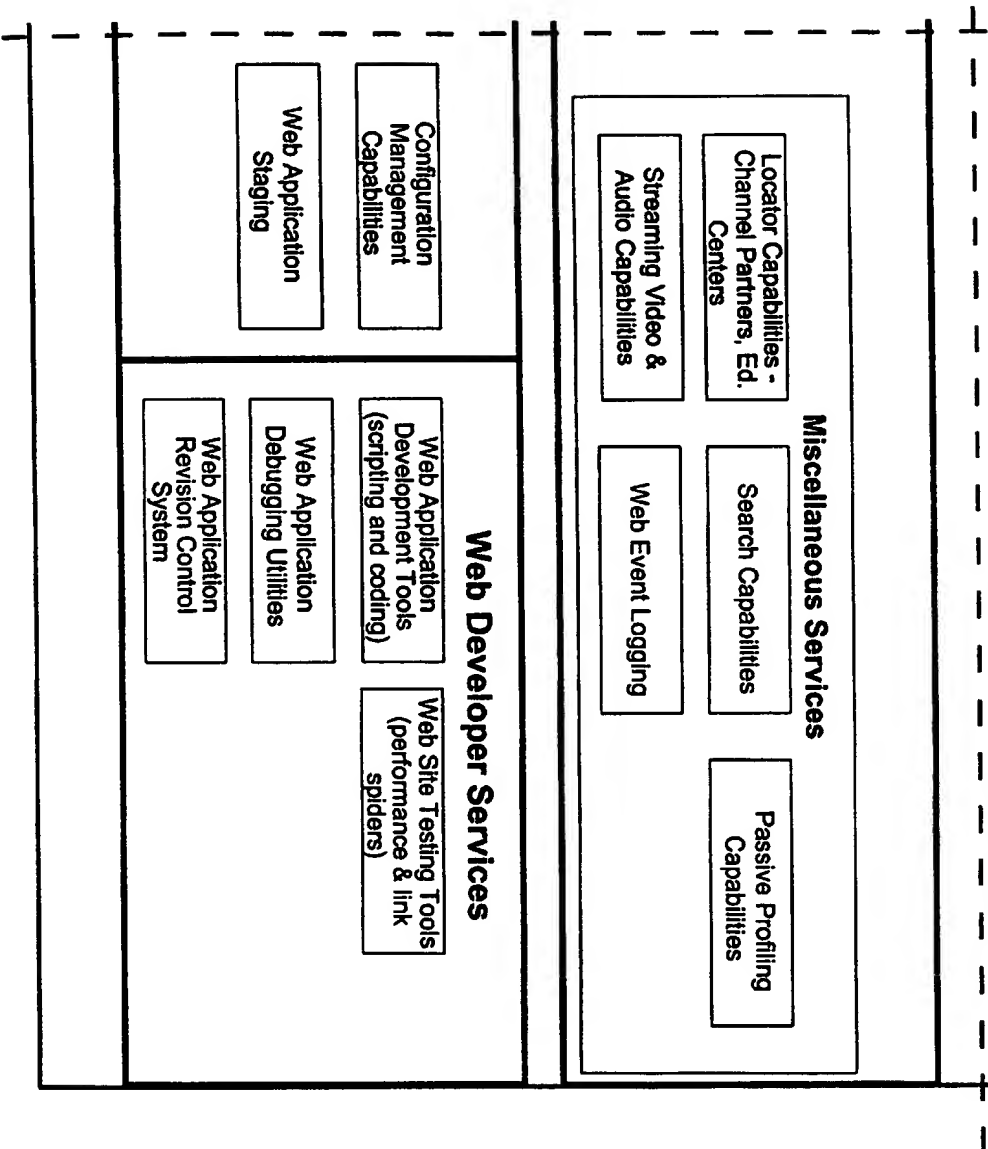
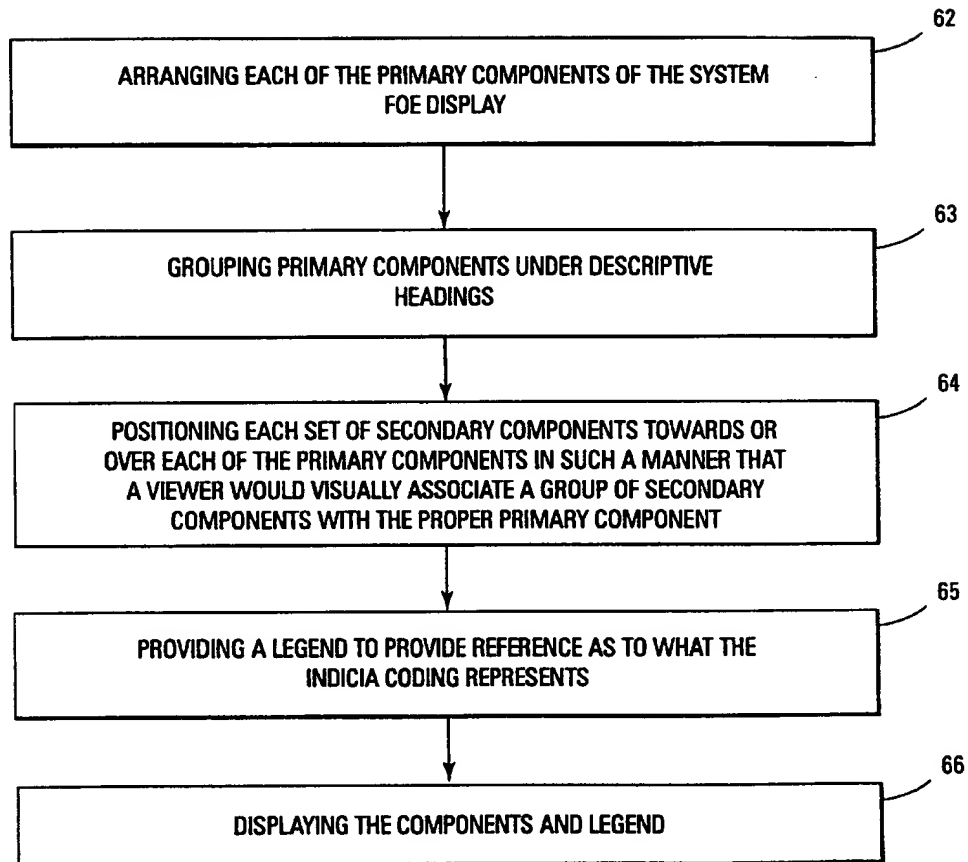
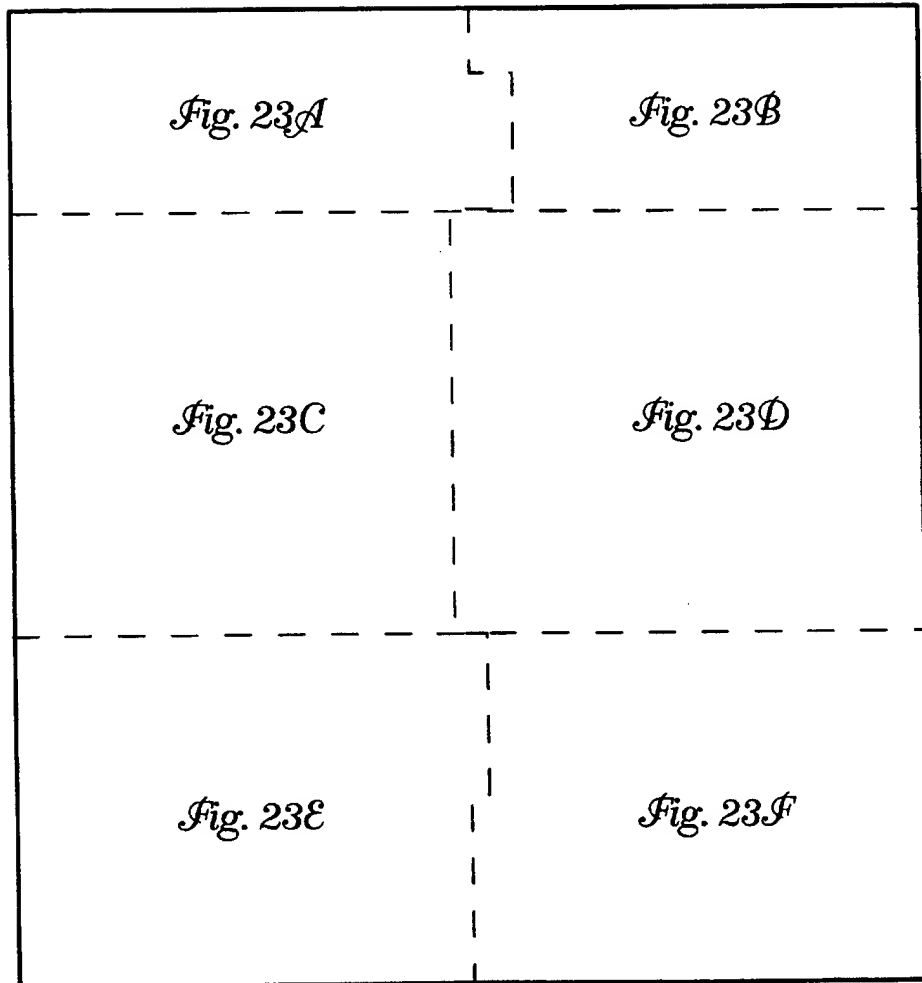


Fig. 21



*Fig. 22*



*Fig. 23*

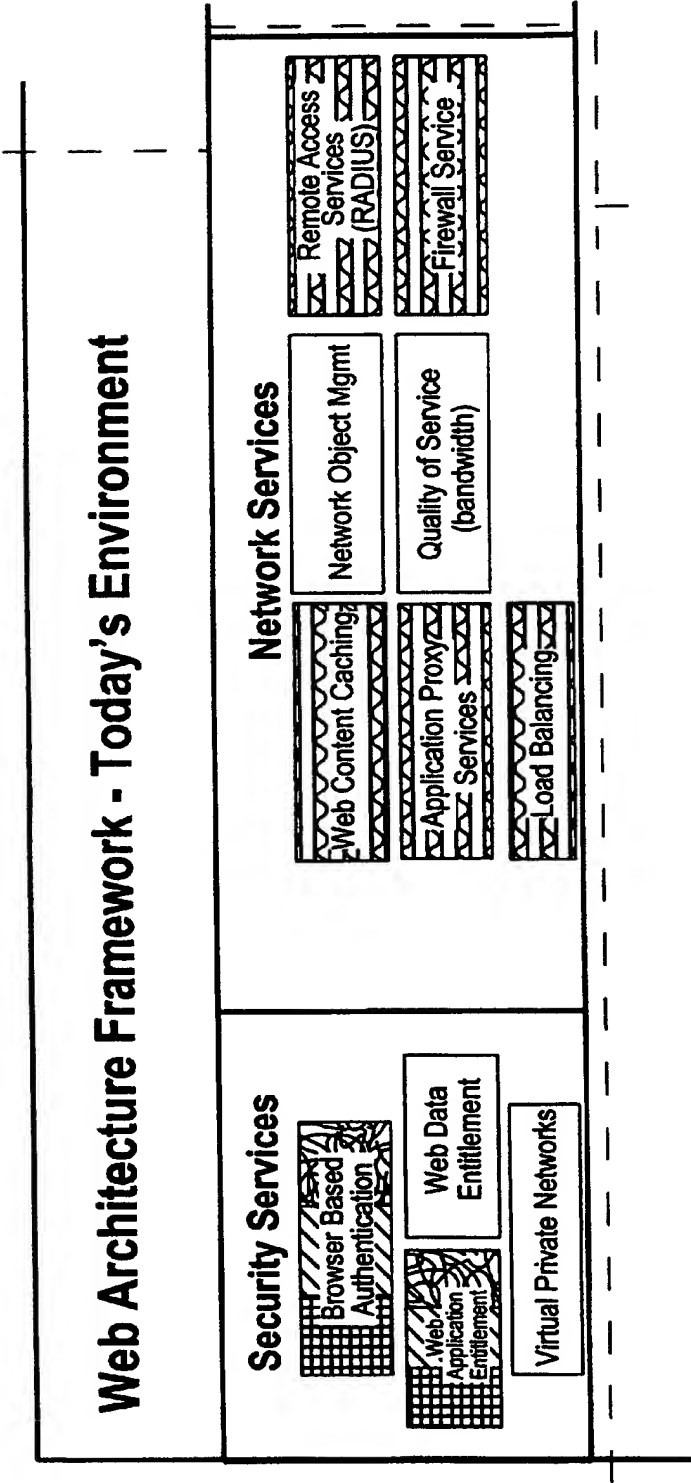


Fig. 23A

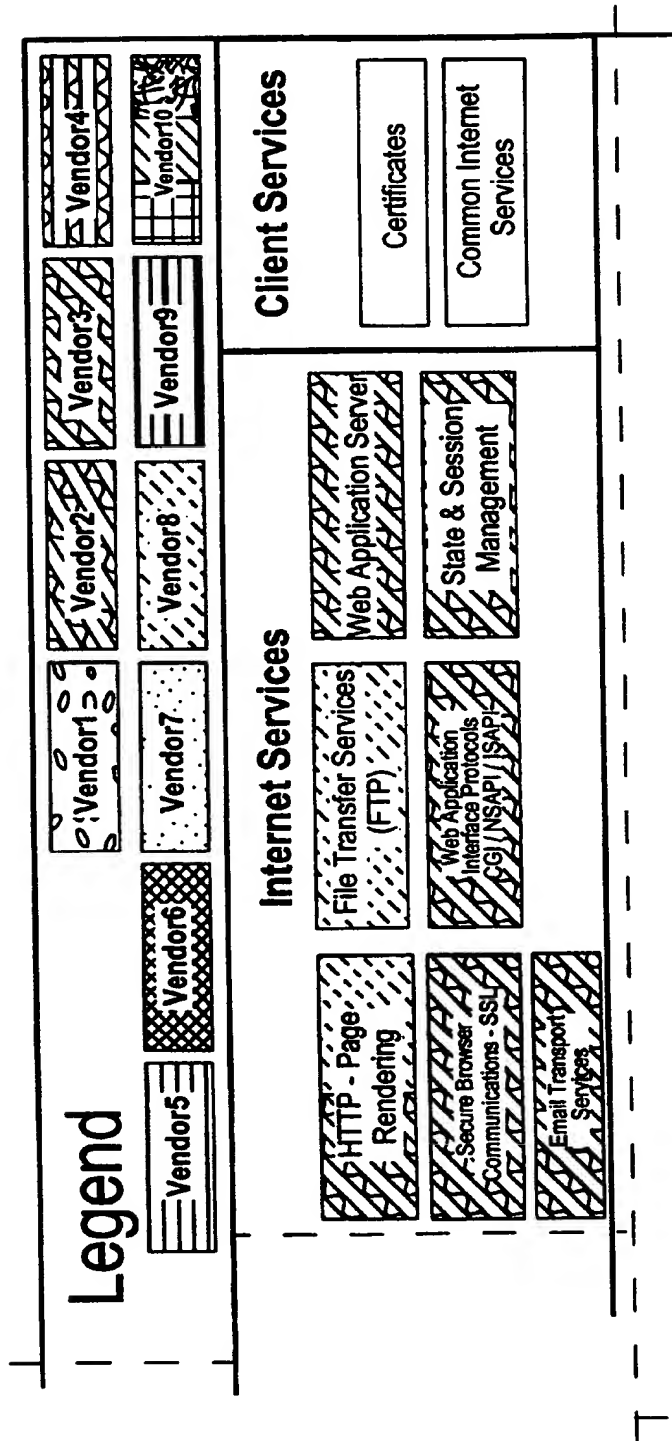


Fig. 23B

## Web Application Services

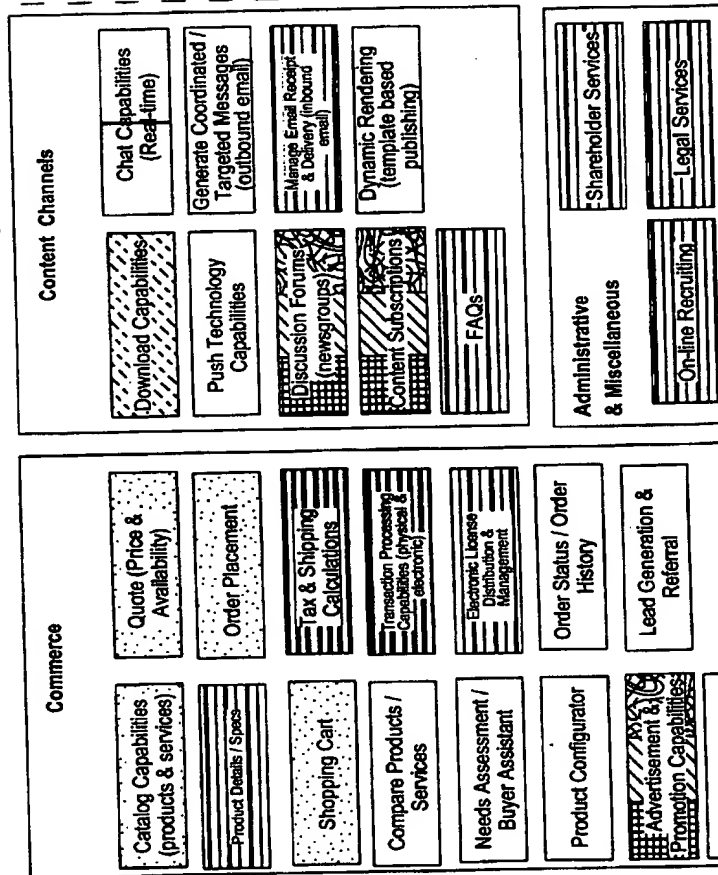


Fig. 23C



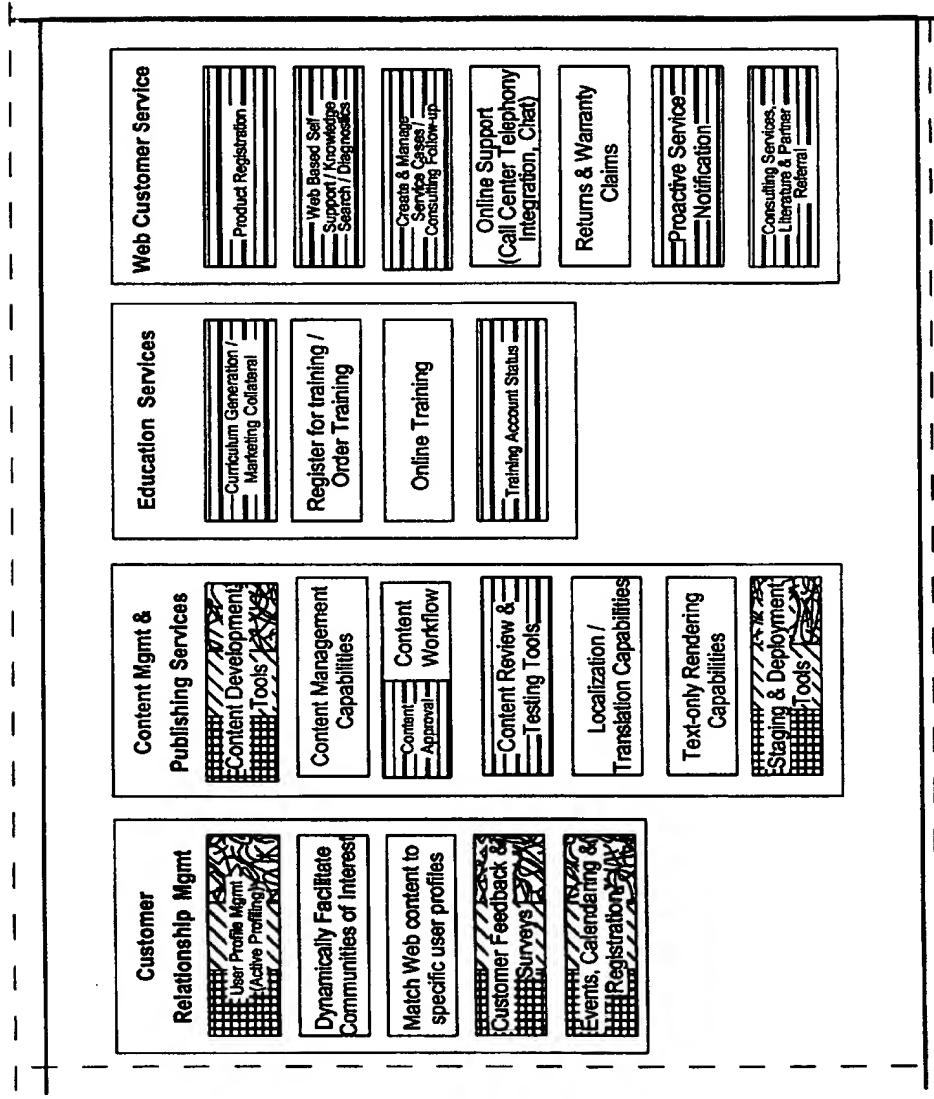


Fig. 23D

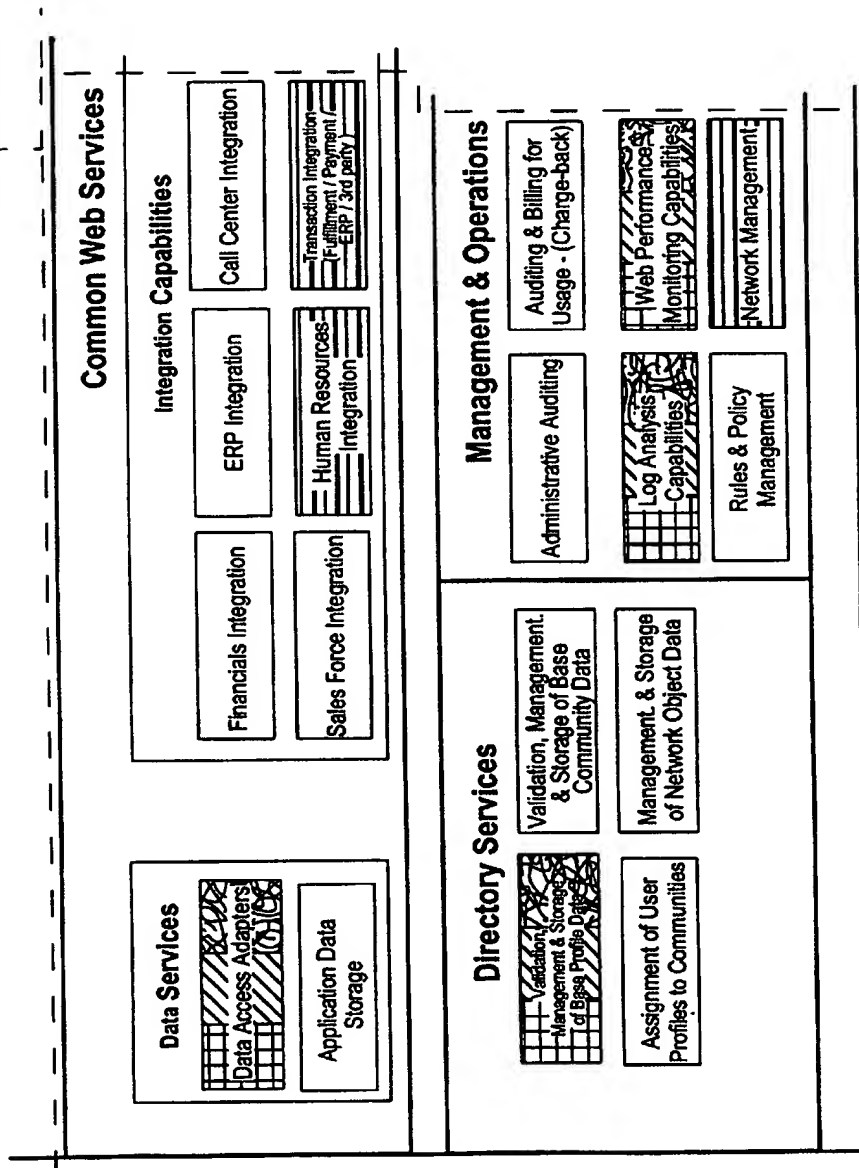


Fig. 23E

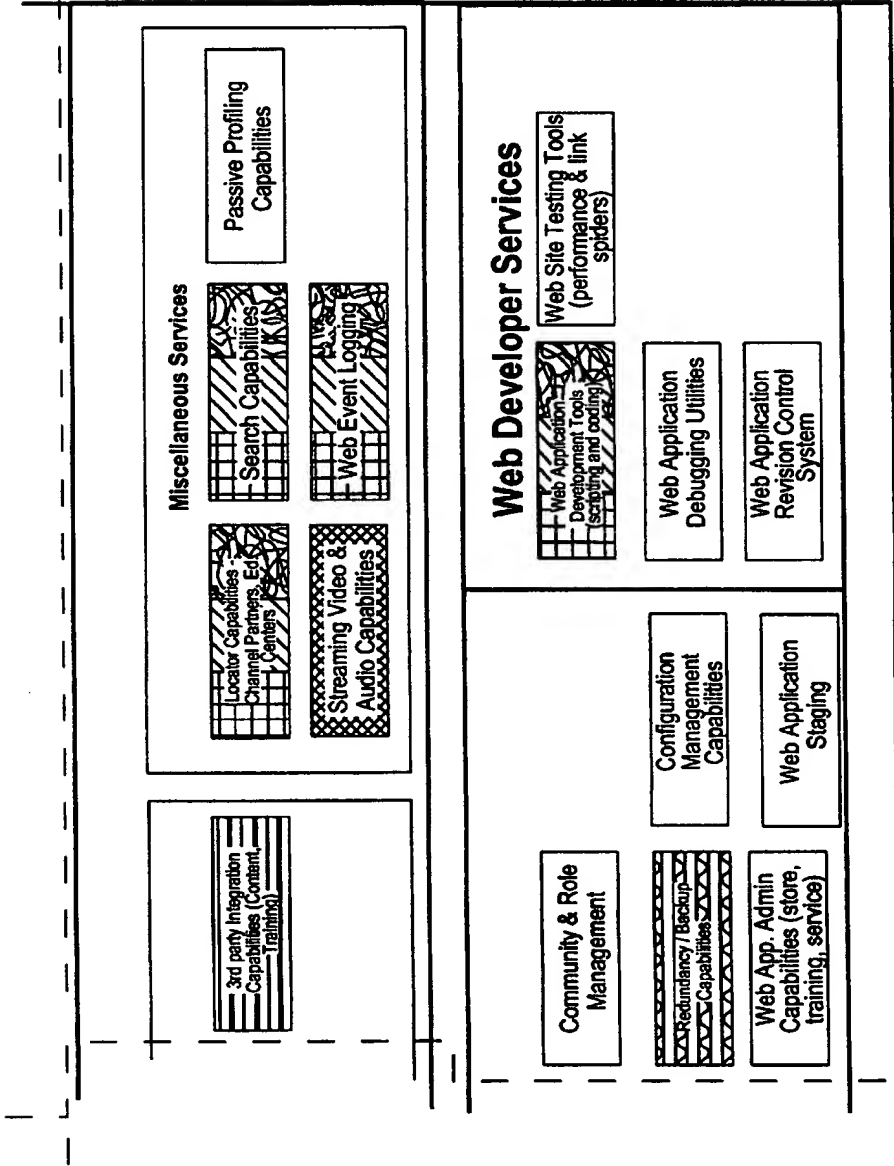
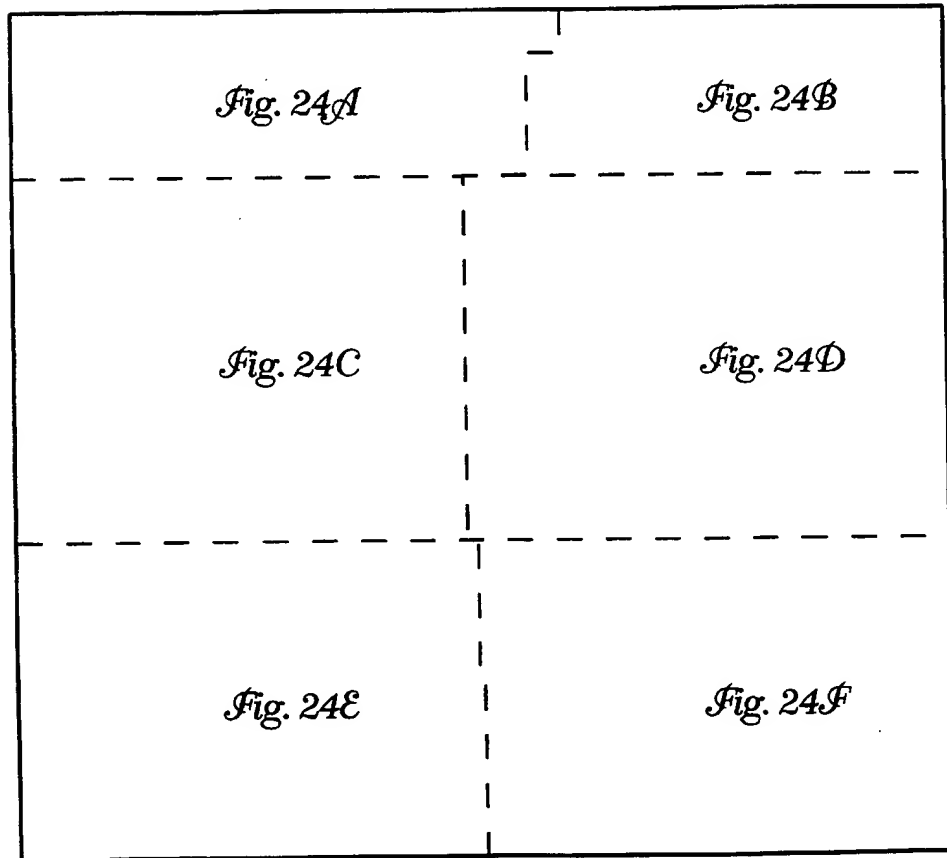


Fig. 23F



*Fig. 24*

## Web Architecture Framework - Core Commerce Capabilities

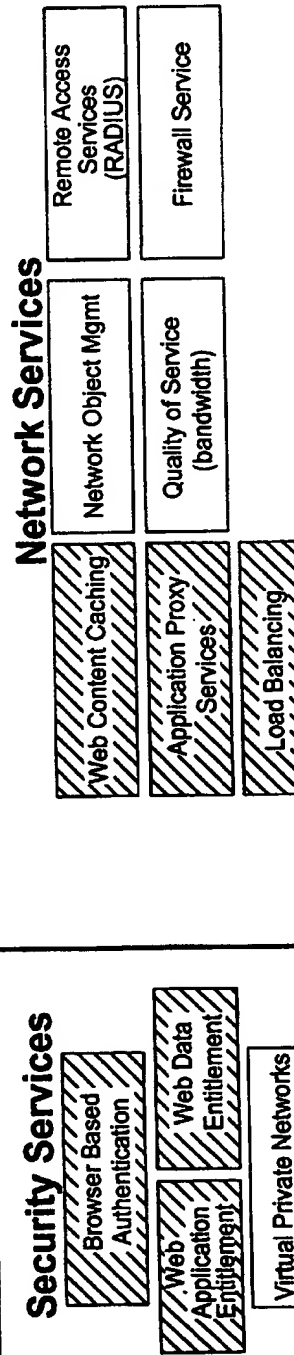
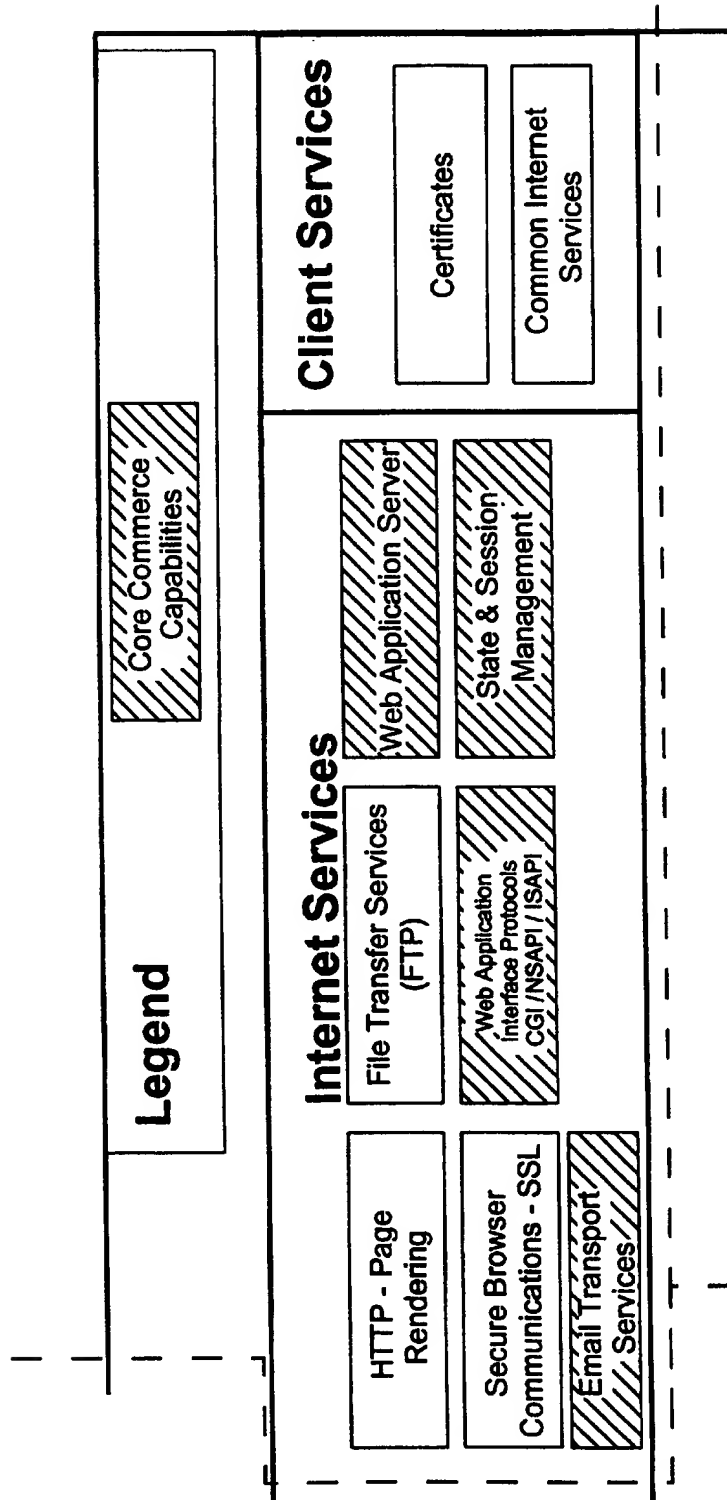
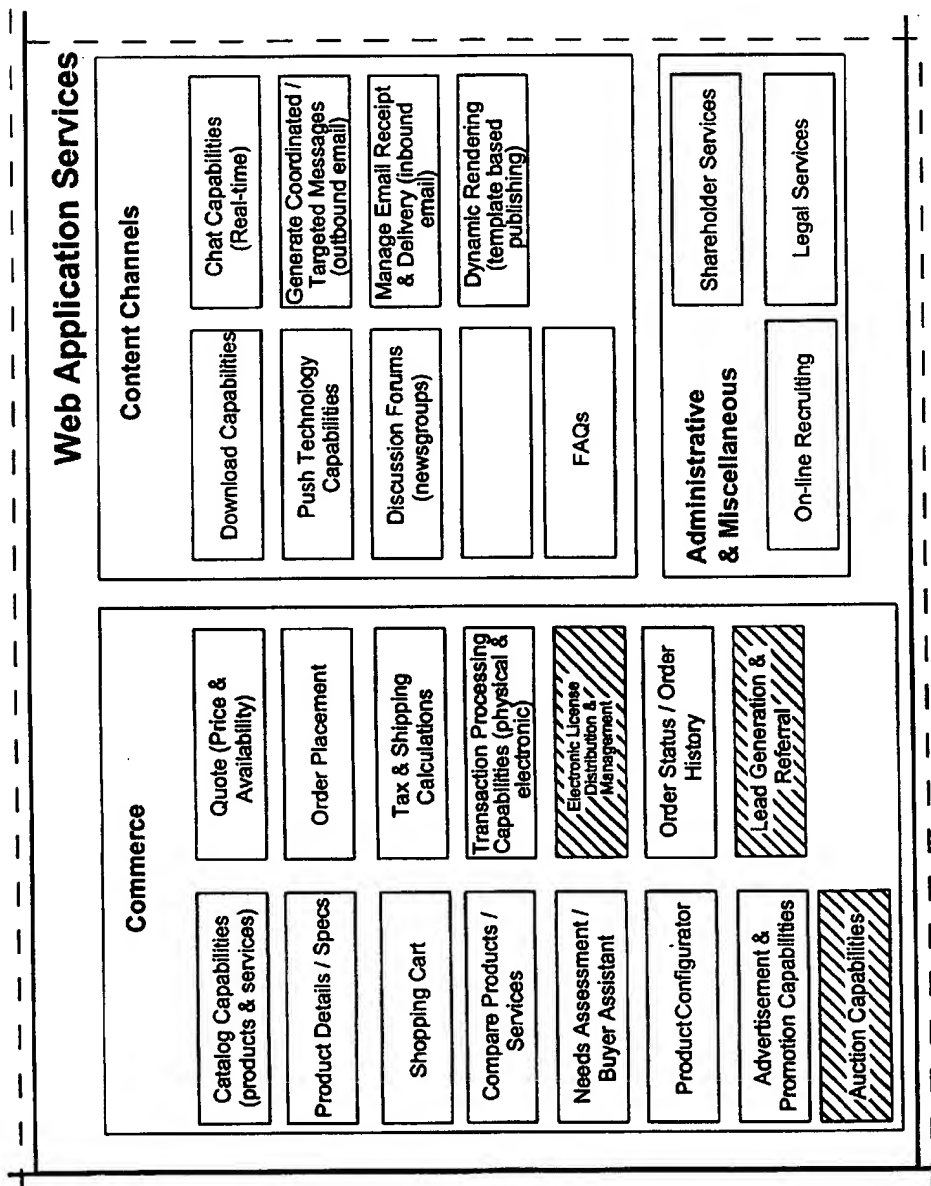


Fig. 24A



*Fig. 24B*



*Fig. 24C*

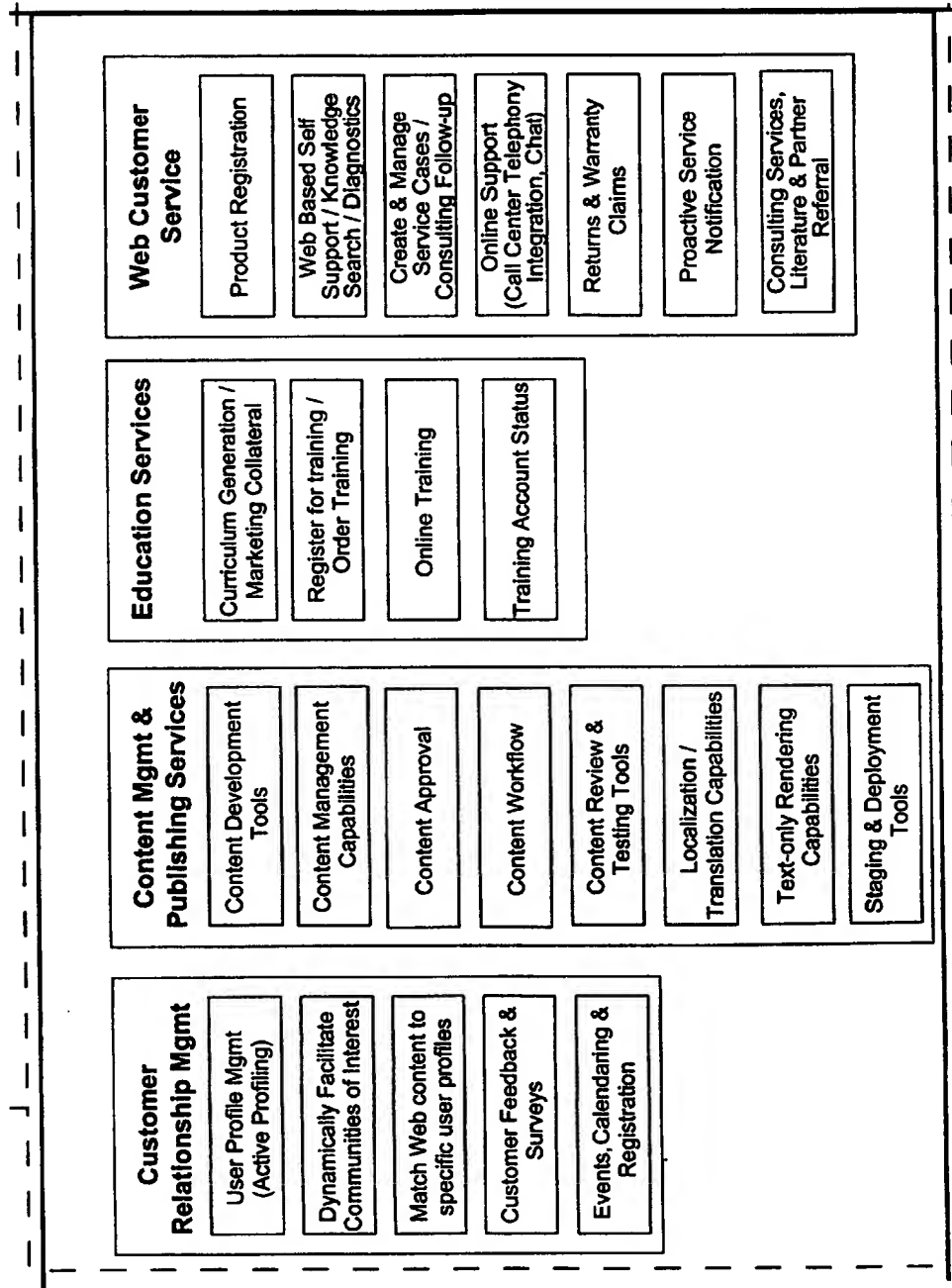


Fig. 24D



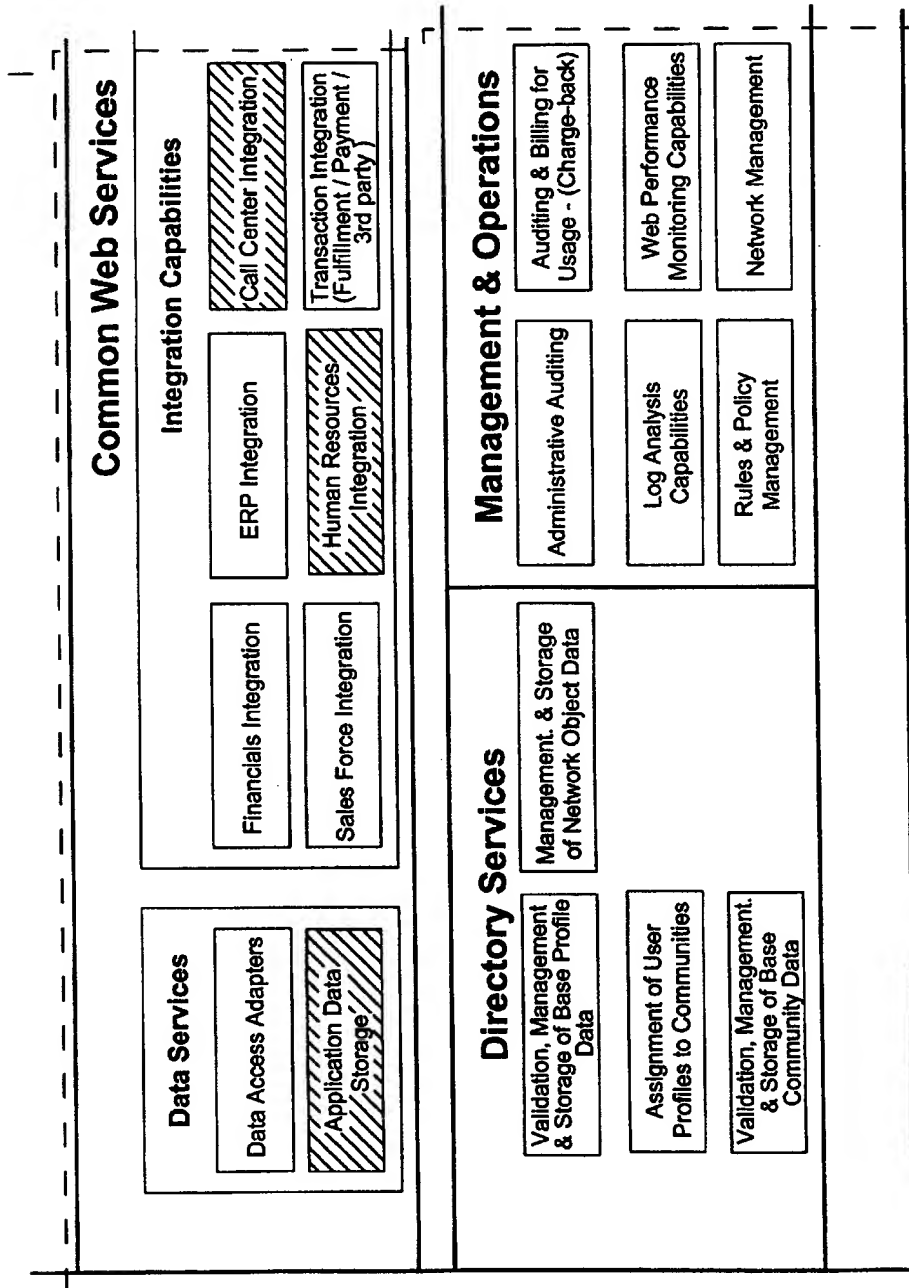
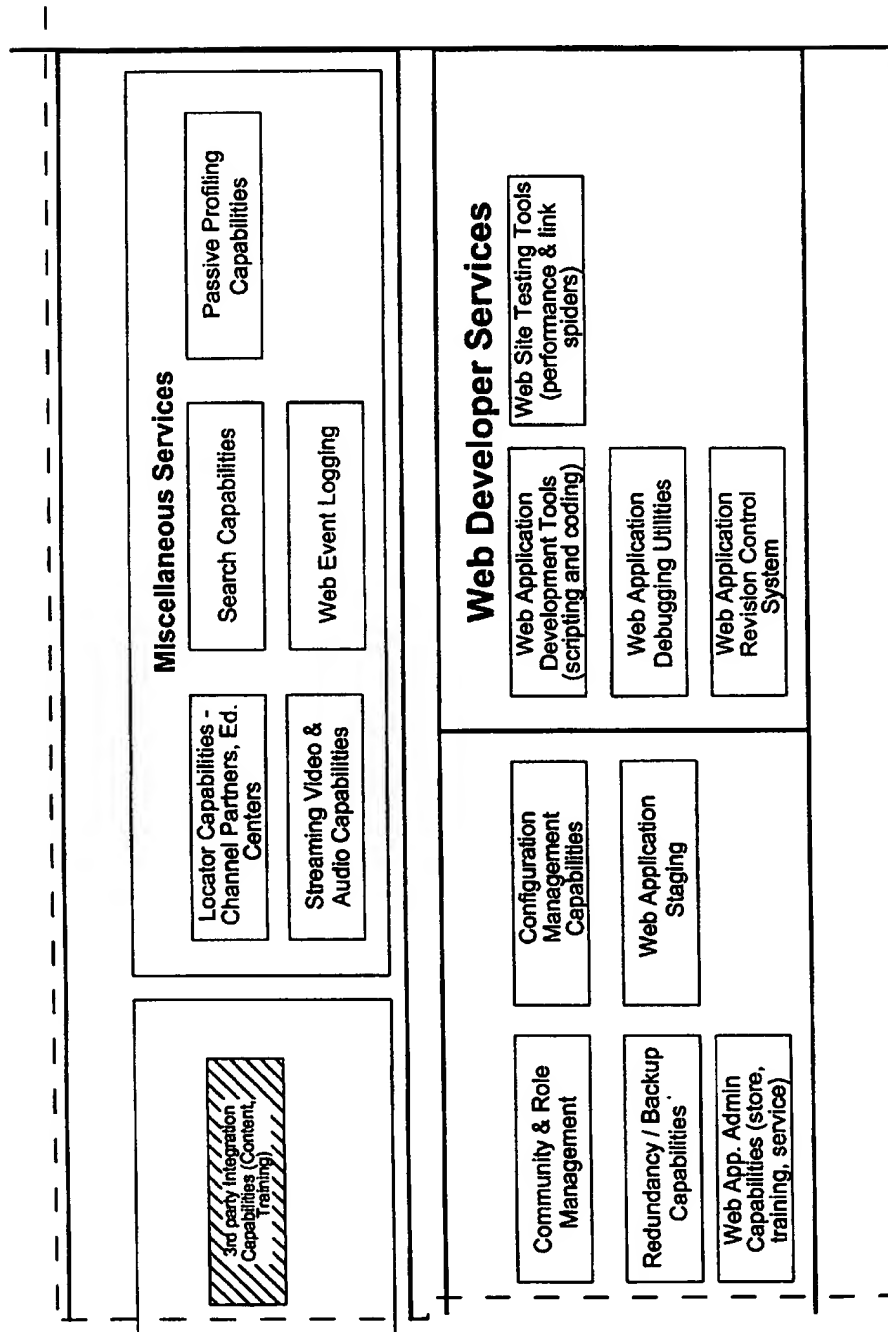
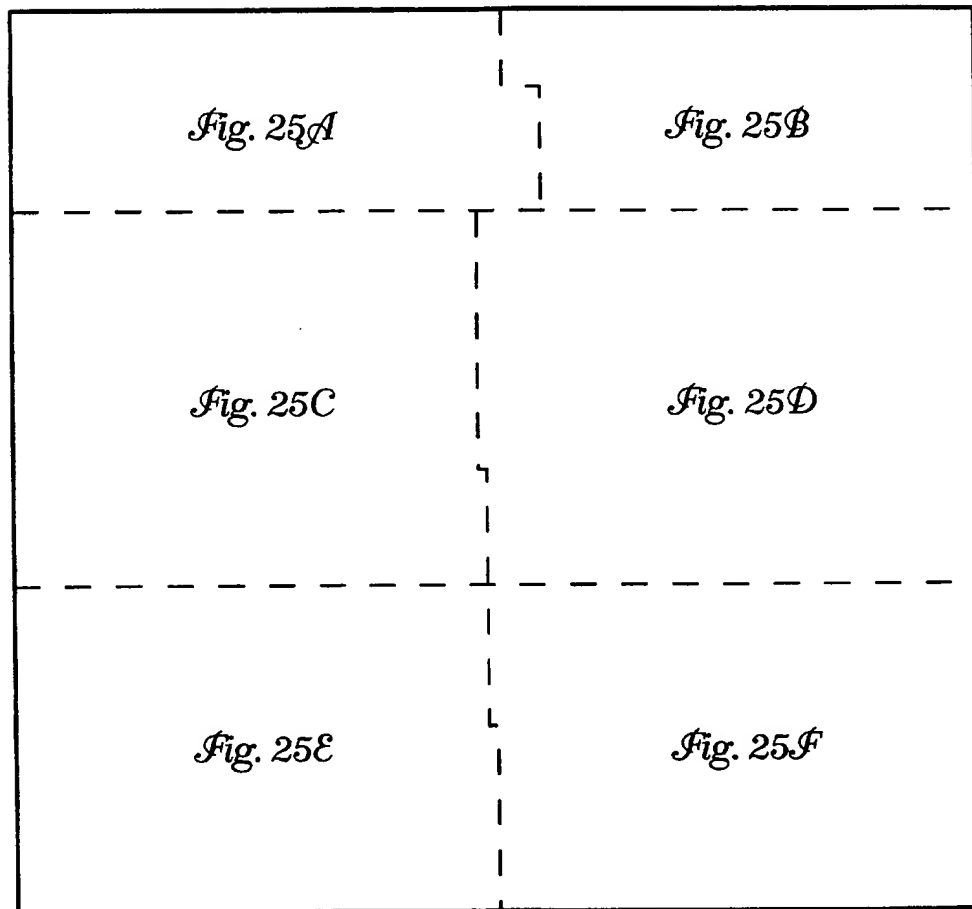


Fig. 24E



*Fig. 24f*



*Fig. 25*

## Web Architecture Framework - Immediate Activities

### Security Services

Browser Based  
Authentication

Web Application  
Entitlement

Web Data  
Entitlement

Virtual Private Networks

### Network Services

Web Content Caching

Application Proxy  
Services

Load Balancing

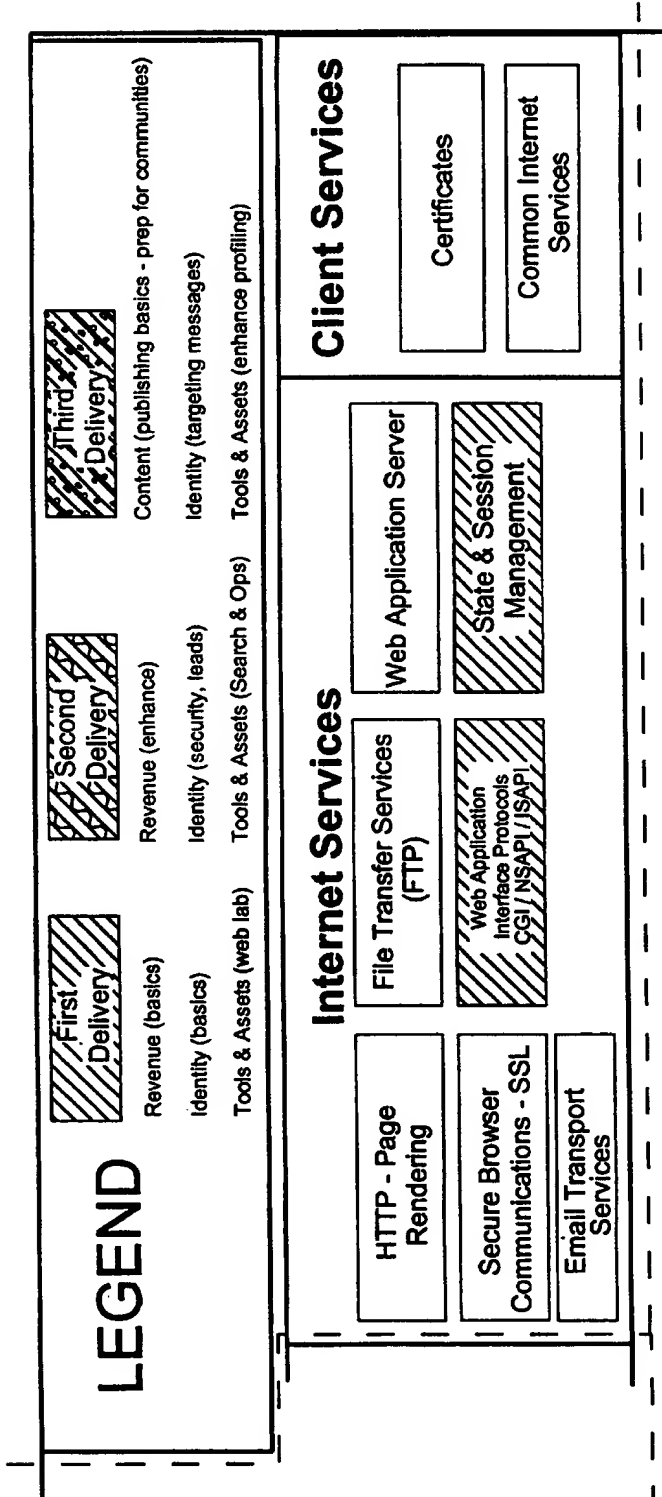
Network Object Mgmt

Quality of Service  
(bandwidth)

Remote Access  
Services  
(RADIUS)

Firewall Service

Fig. 25A



*Fig. 25B*

## Web Application Services

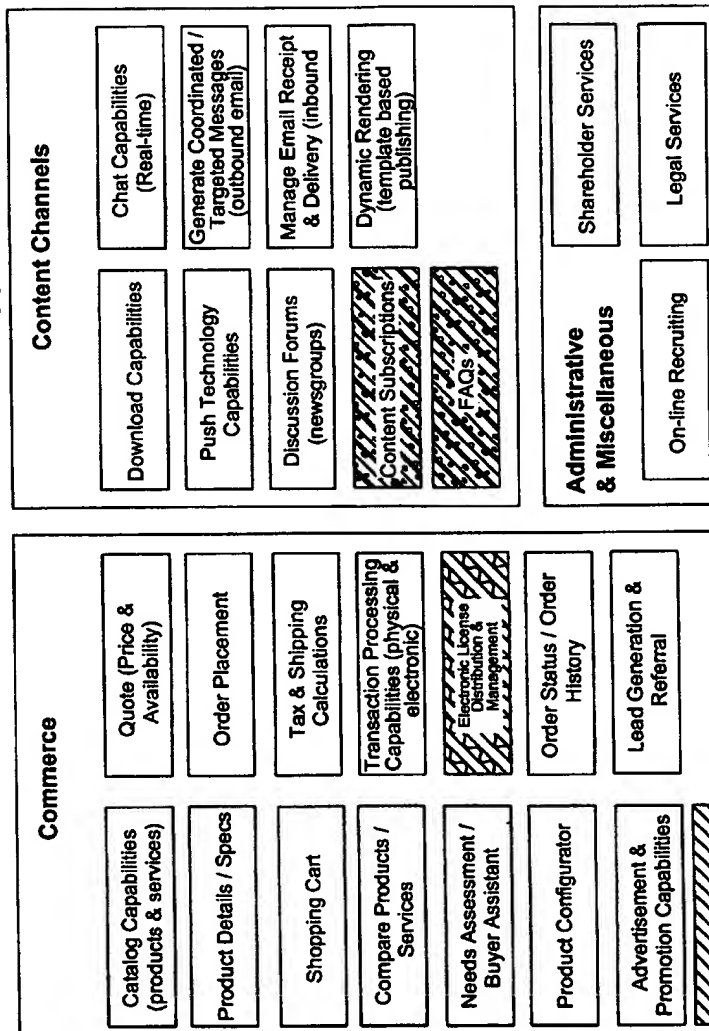


Fig. 25C

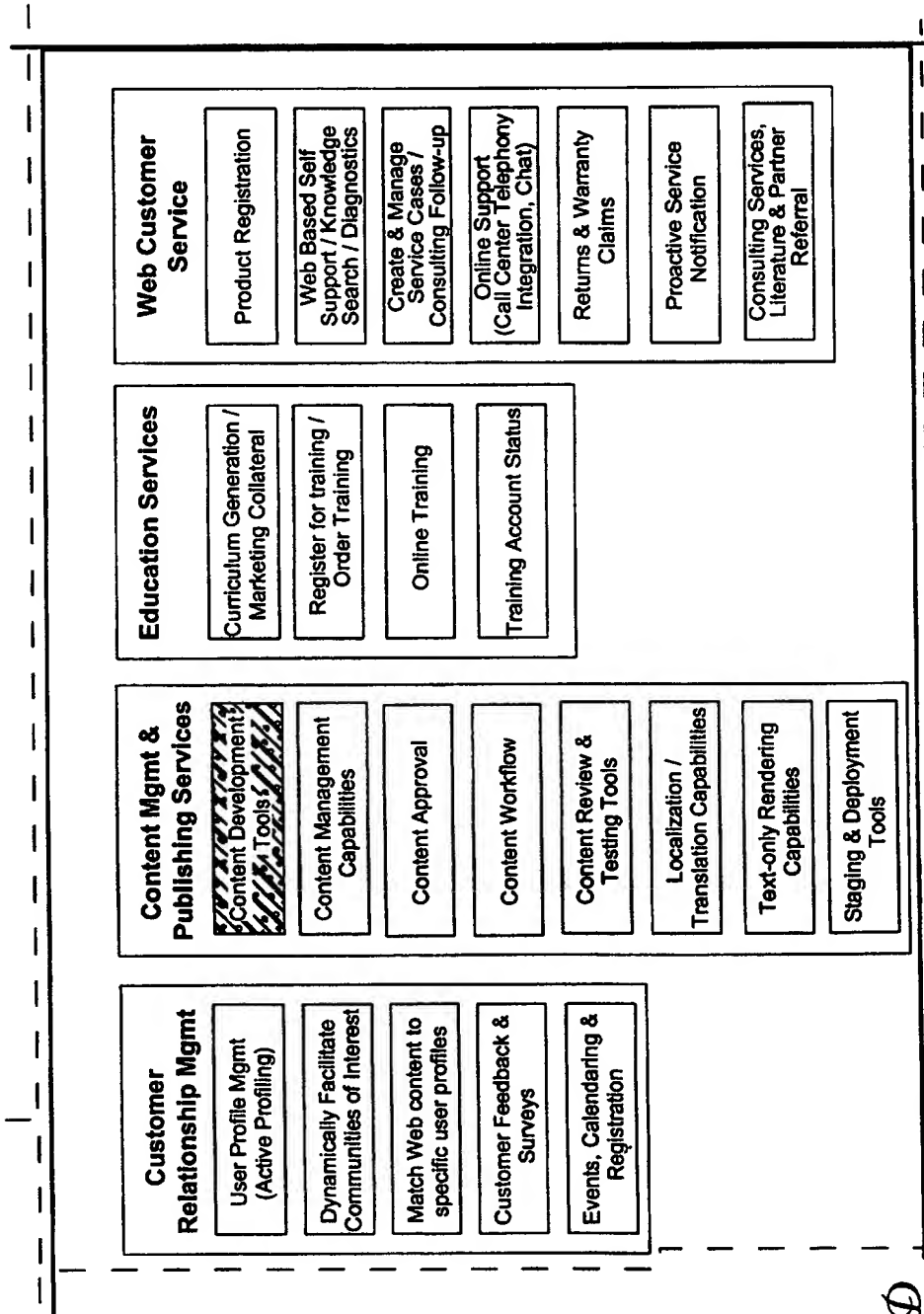


Fig. 25D

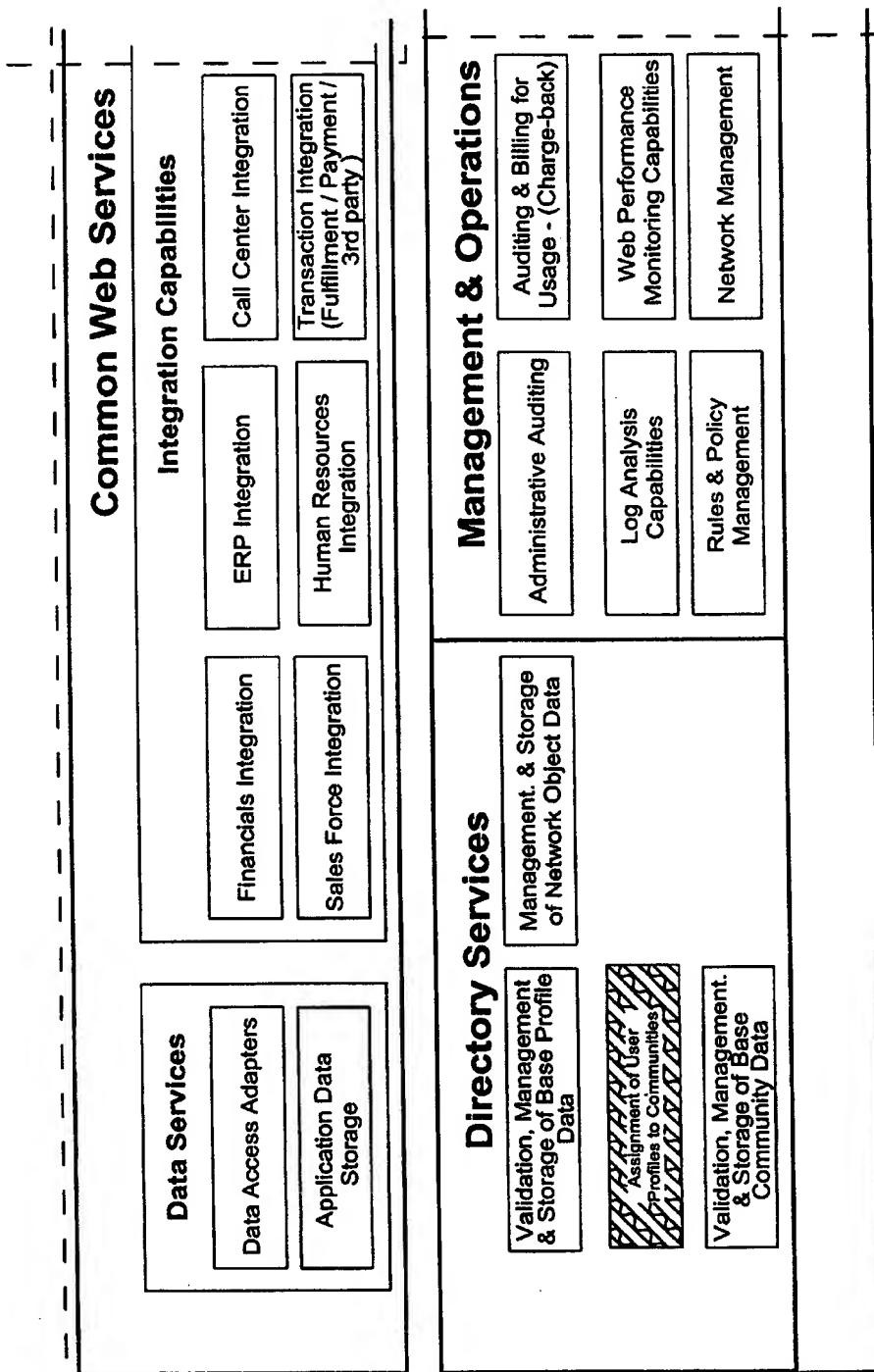


Fig. 25E



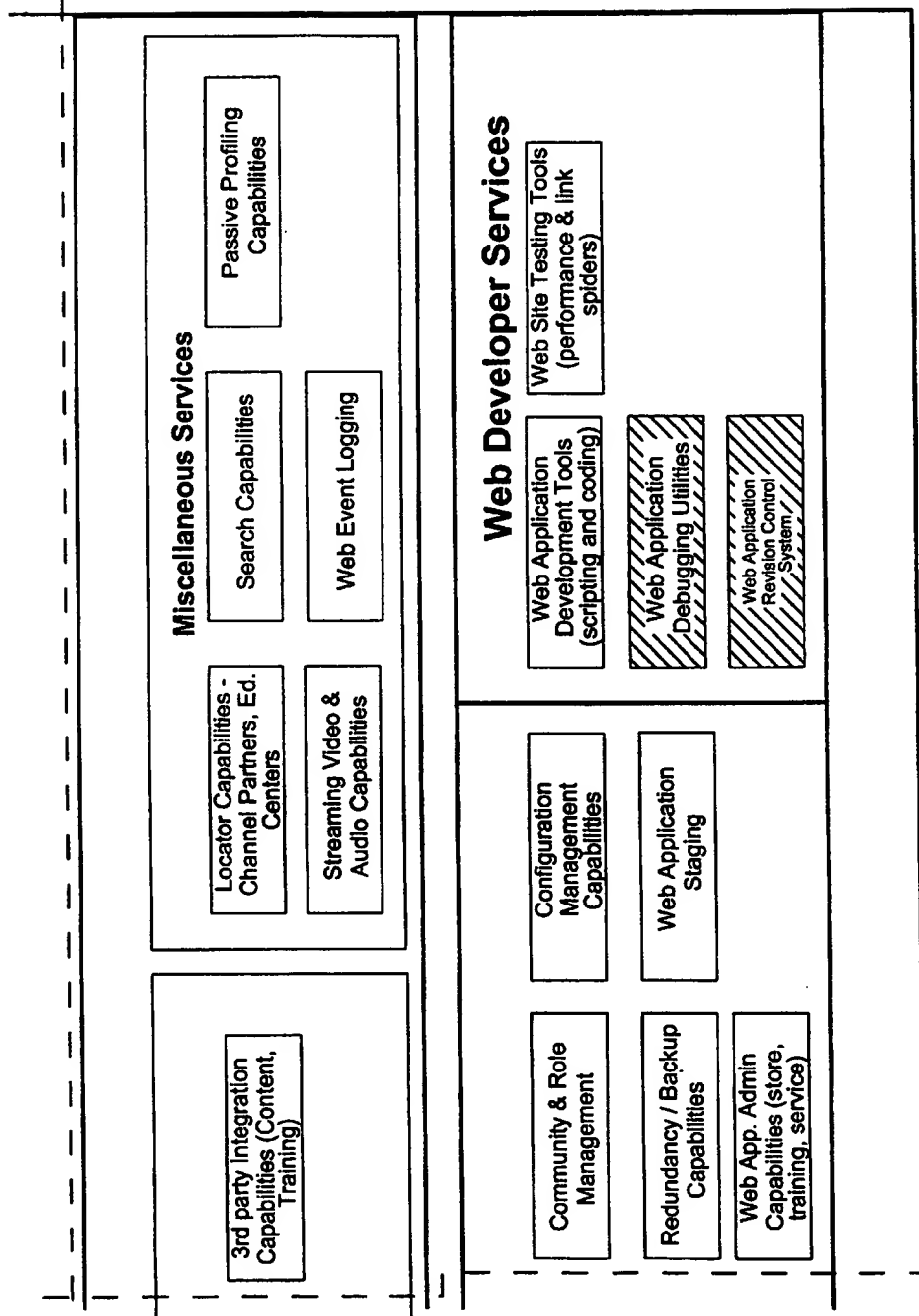
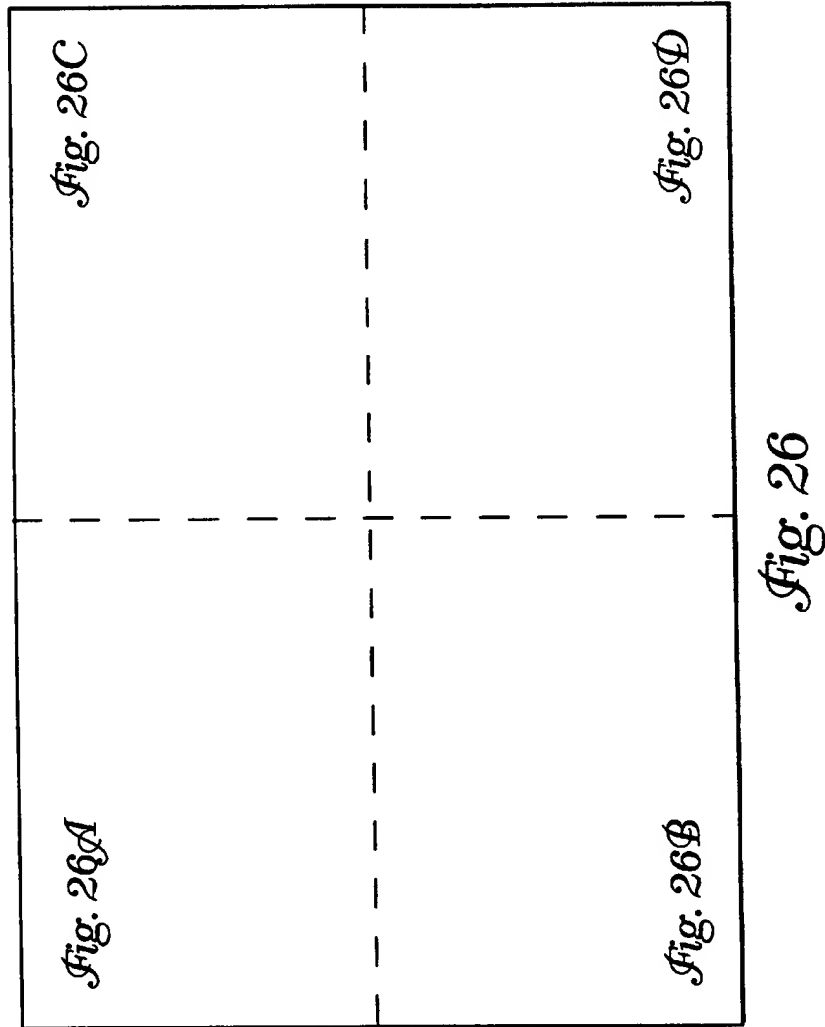





Fig. 25A



*Fig. 26A* **Core Commerce Capabilities - Infrastructure Services**

<u>Core Capabilities</u>	<u>Existing Capabilities</u>
	<input type="checkbox"/> Verifies user identity using built-in browser functionality <input type="checkbox"/> Maintains authentication information throughout sessions <input type="checkbox"/> Utilizes centralized directory of profiles <input type="checkbox"/> Provides LDAP compatibility <input type="checkbox"/> Provides NDS Compatibility
	<input type="checkbox"/> Restricts access to specific web applications based upon user privileges <input type="checkbox"/> Determines if a user or group of users have permission to perform an operation in a specific application <input type="checkbox"/> Utilizes centralized directory of profiles for entitlement data <input type="checkbox"/> Provides LDAP compatibility <input type="checkbox"/> Provides NDS compatibility
	<input type="checkbox"/> Restricts access to web content and data based upon user privileges <input type="checkbox"/> Determines if a user or group of users have permission to manipulate web data (create, read, update, delete) <input type="checkbox"/> Utilizes centralized directory of profiles for entitlement data <input type="checkbox"/> Provides LDAP compatibility <input type="checkbox"/> Provides NDS compatibility

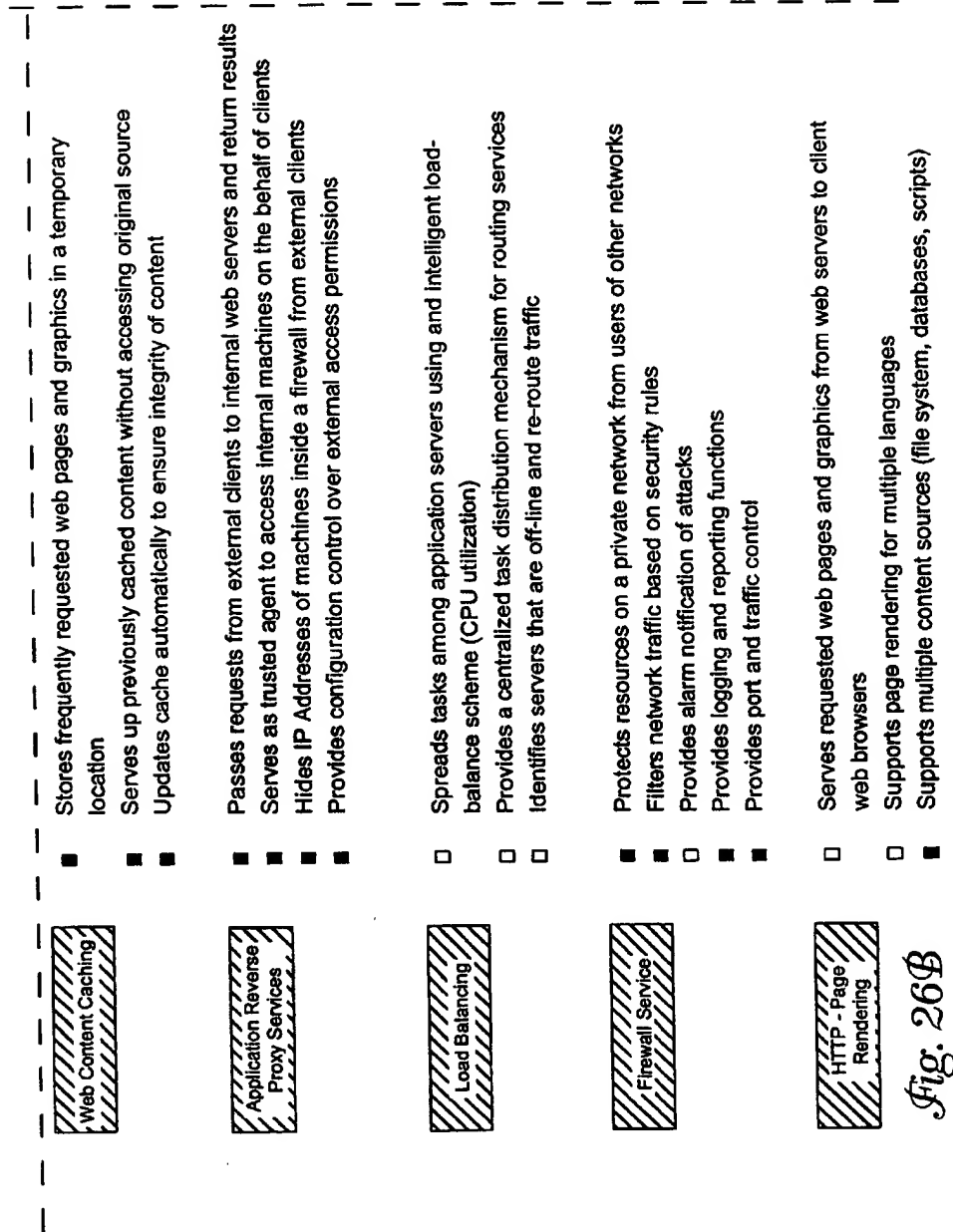


Fig. 26B

Fig. 26C

Legend: ■ Available Today	
Core Capabilities	Existing Capabilities
Secure Browser Communications - SSL	<input checked="" type="checkbox"/> Provides encrypted communication with common web browsers <input checked="" type="checkbox"/> Supports the Secure Sockets Layer protocol 2.0 <input checked="" type="checkbox"/> Supports the Secure Sockets Layer protocol 3.0
File Transfer Services (FTP)	<input checked="" type="checkbox"/> Transfers files between computers on the Internet using the standard File Transfer Protocol (FTP) <input checked="" type="checkbox"/> Stores files on a file system or database <input checked="" type="checkbox"/> Provides mechanism to manage access control for files on a FTP server
Web Application Interface Protocols CGI/NSAPI/ISAPI	<input checked="" type="checkbox"/> Supports Common Gateway Interface (CGI) protocol <input checked="" type="checkbox"/> Supports Netscape API (NSAPI) protocol <input type="checkbox"/> Supports Microsoft's API (ISAPI) protocol <input type="checkbox"/> Provides alternative to the interface mechanism that may be used
Web Application Server Plug-in	<input type="checkbox"/> Executes web application logic <input type="checkbox"/> Utilizes user session information to support interactive applications <input type="checkbox"/> Provides scalability features <input type="checkbox"/> Provides fail-over features <input type="checkbox"/> Provides application programming logic

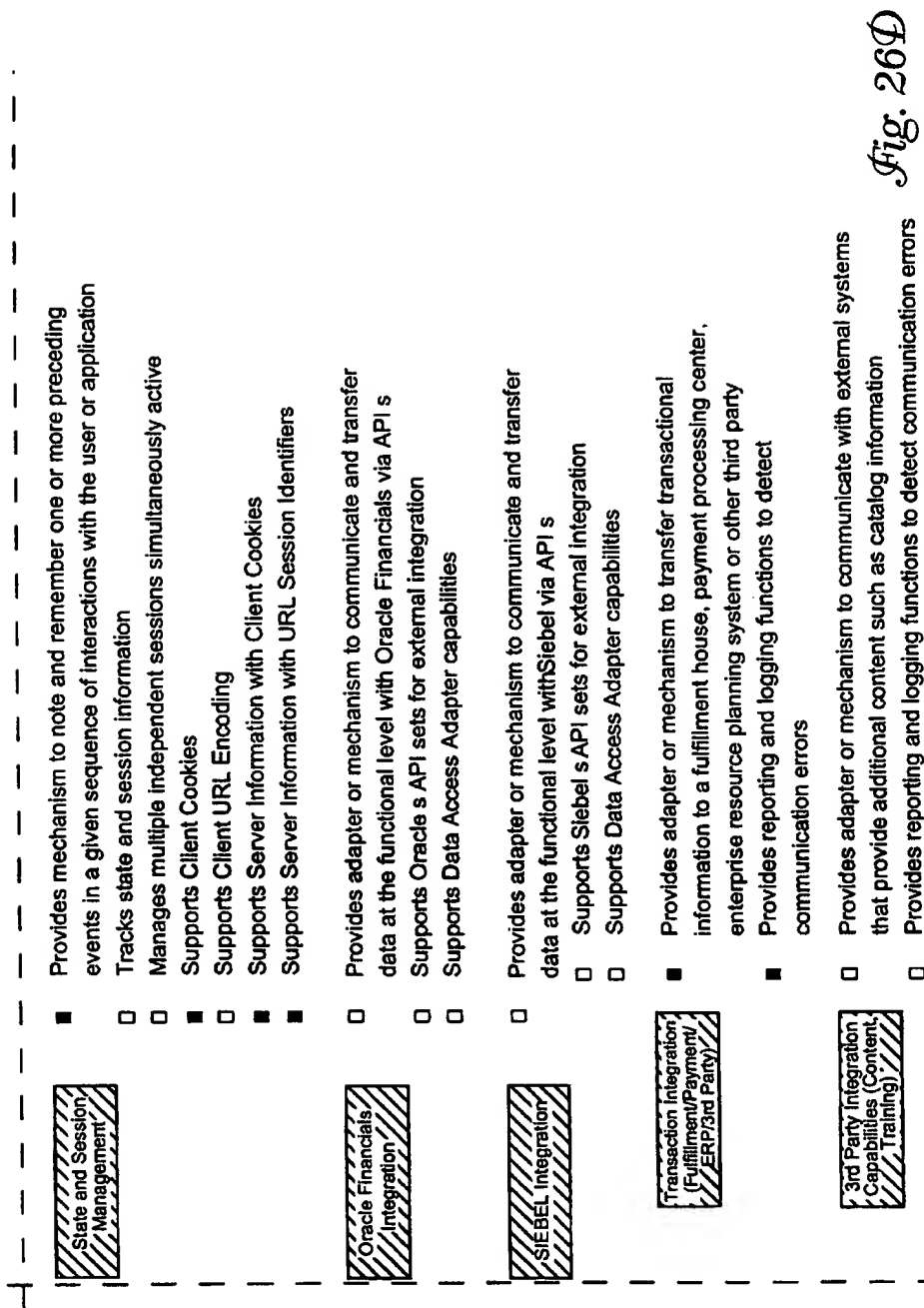
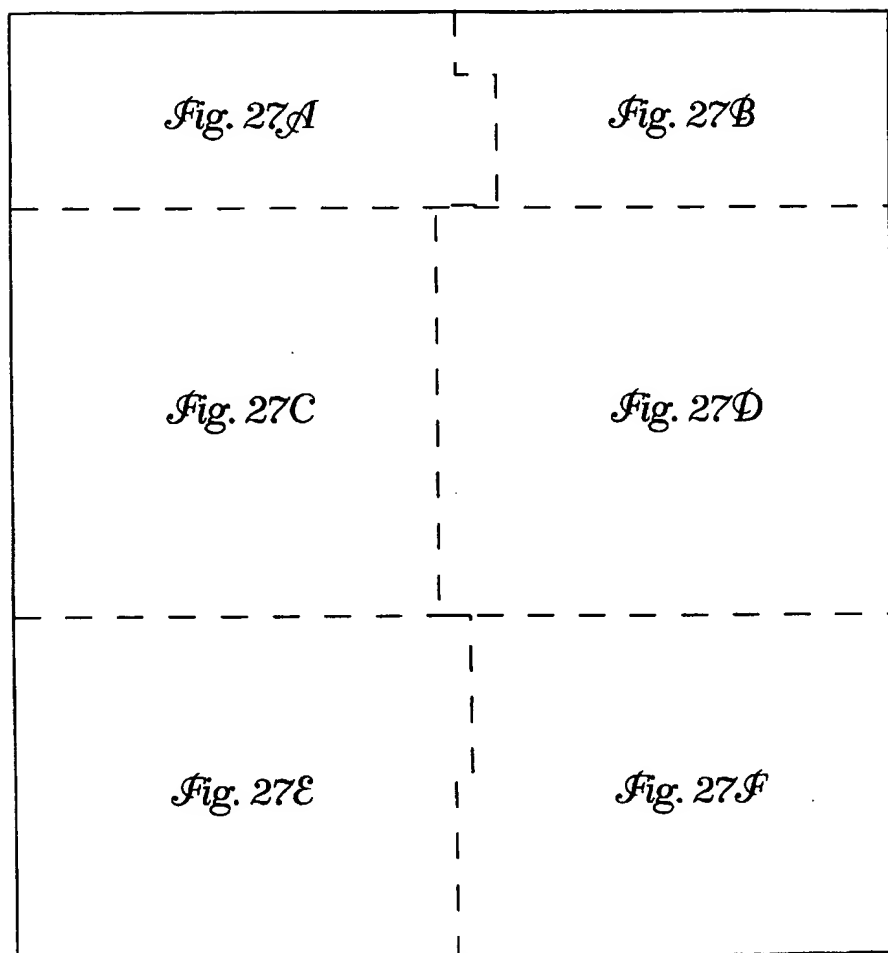
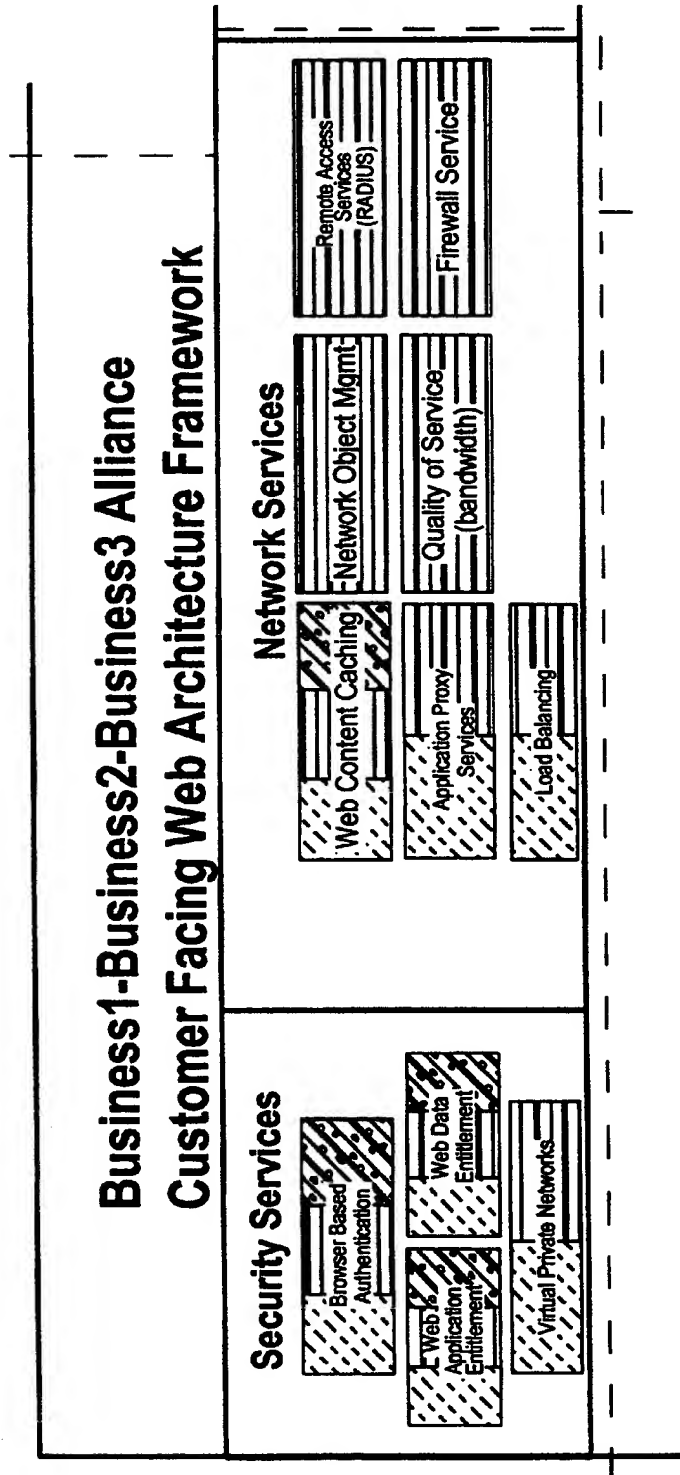


Fig. 26D



*Fig. 27*



*Fig. 27A*



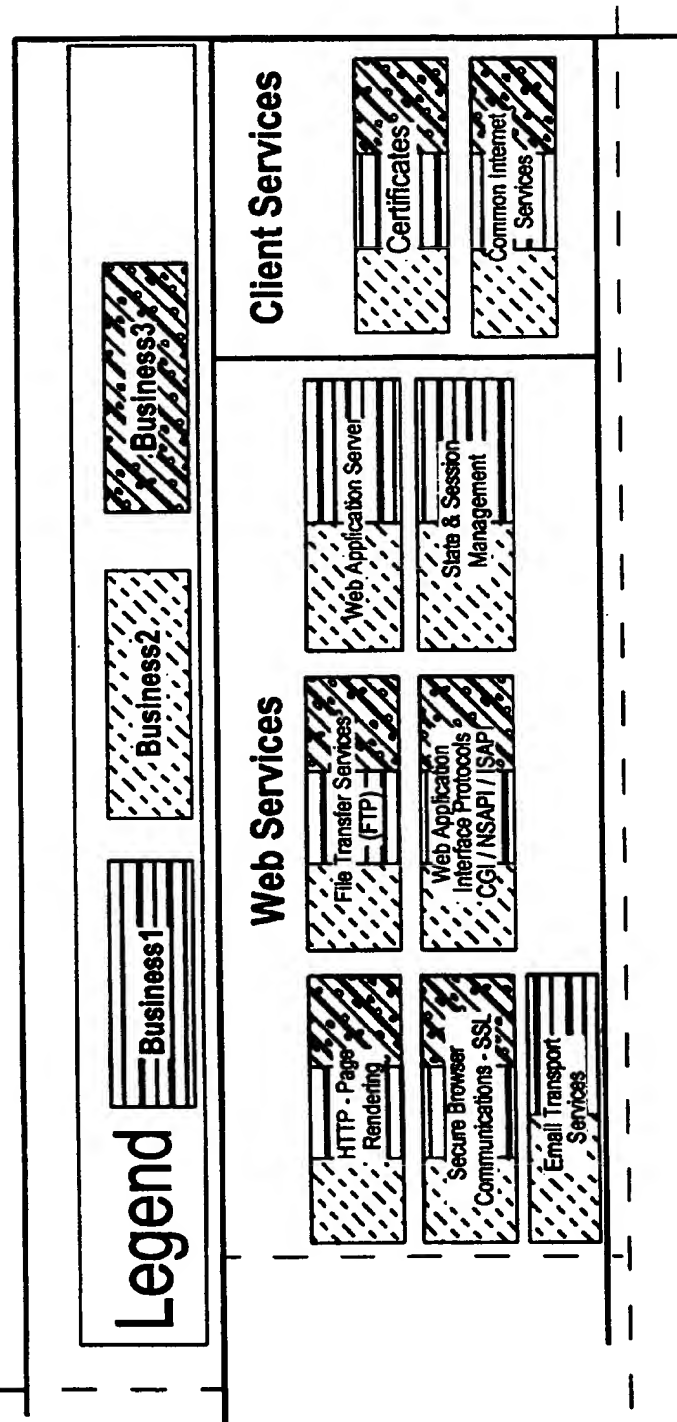


Fig. 27B

Web Application Services

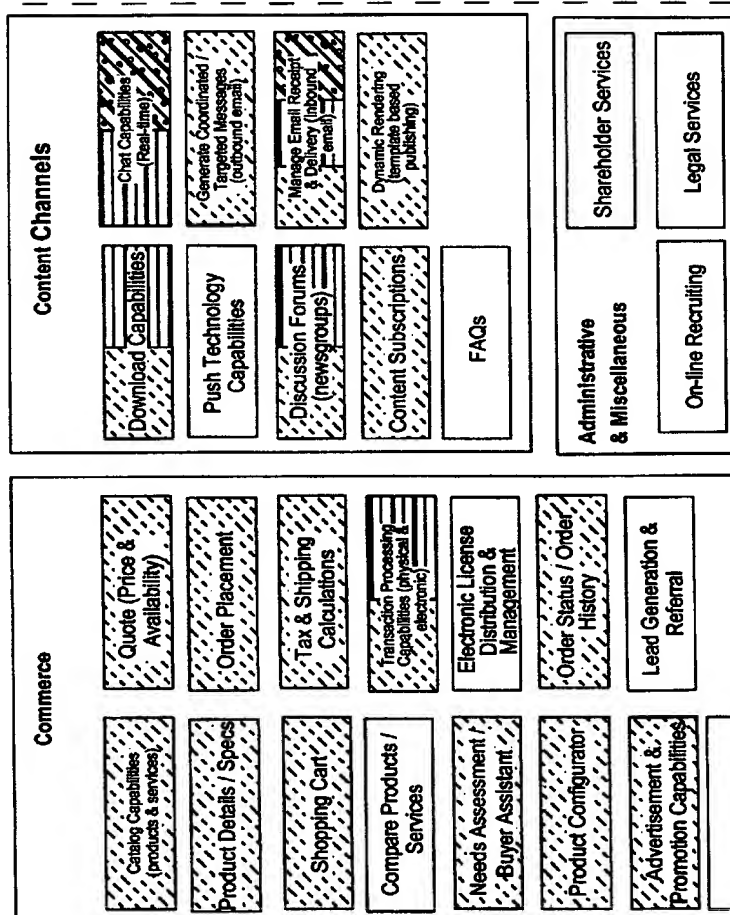


Fig. 27C

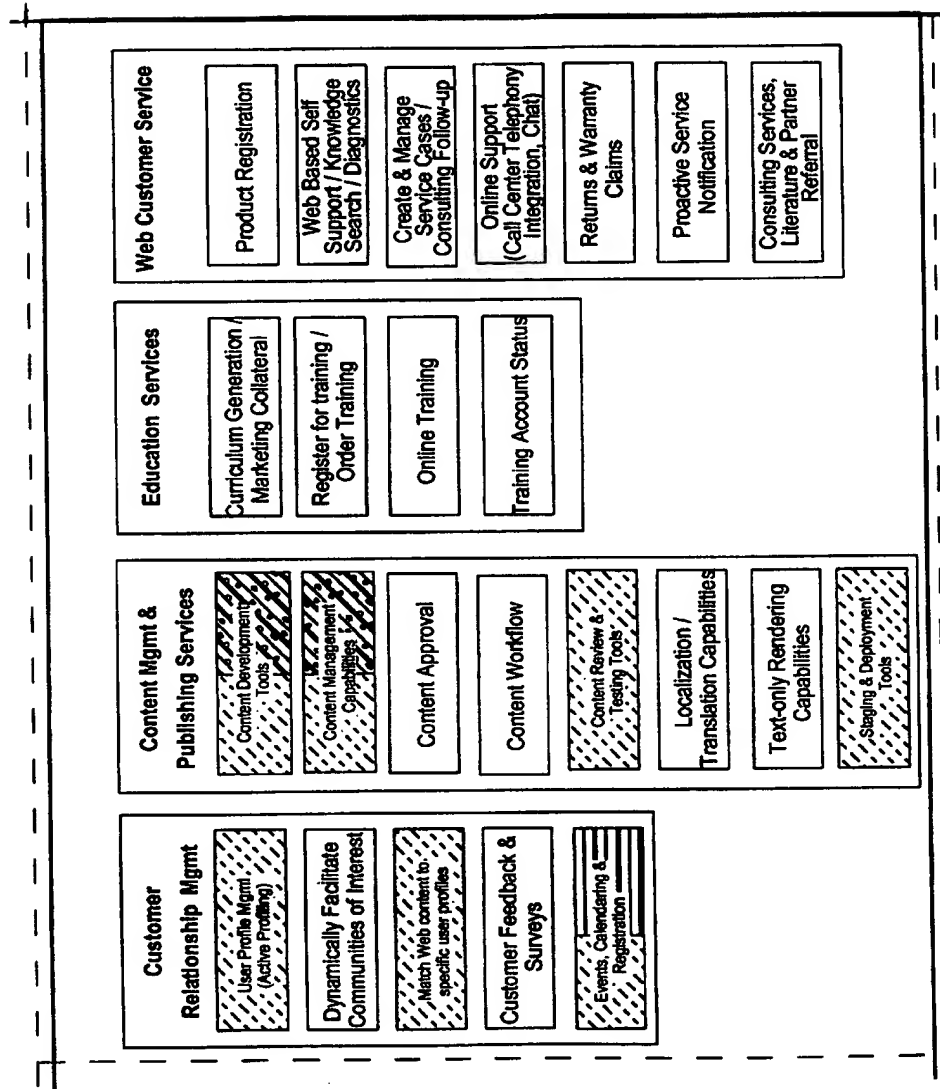
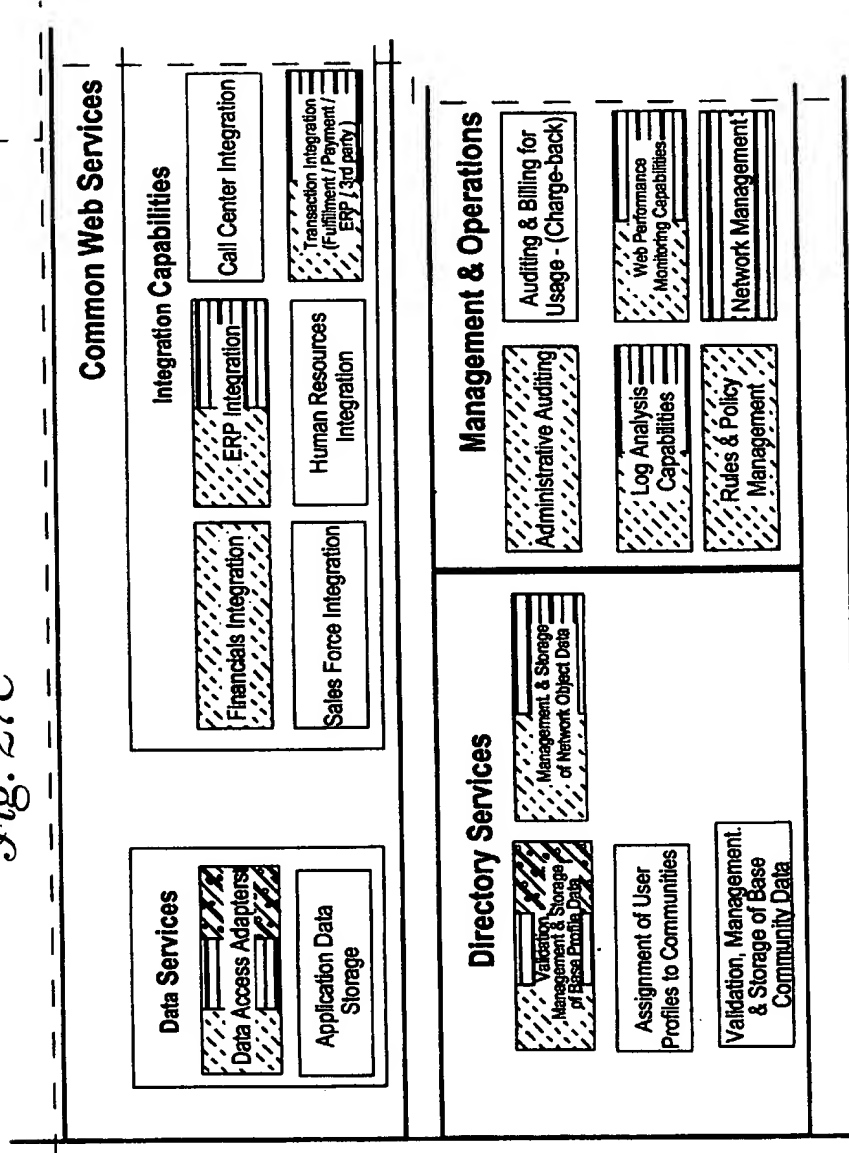


Fig. 27D

Fig. 27E



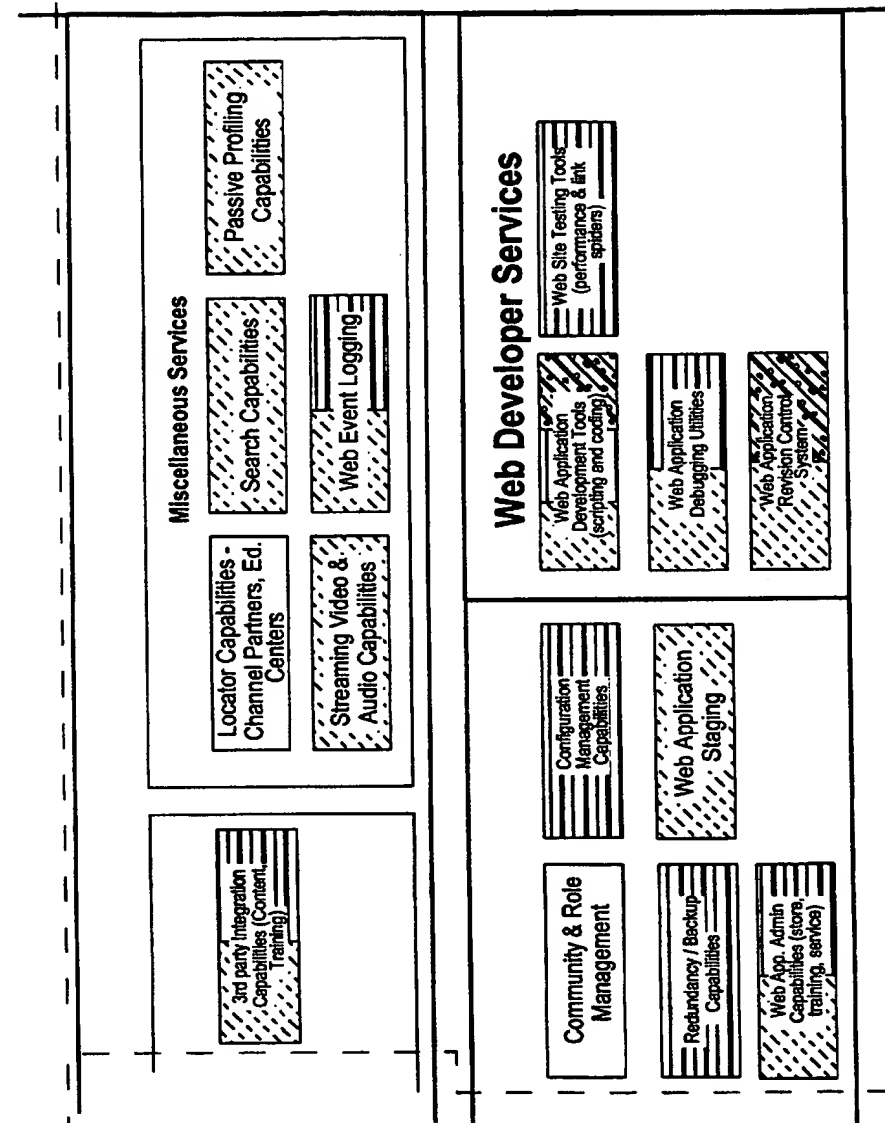
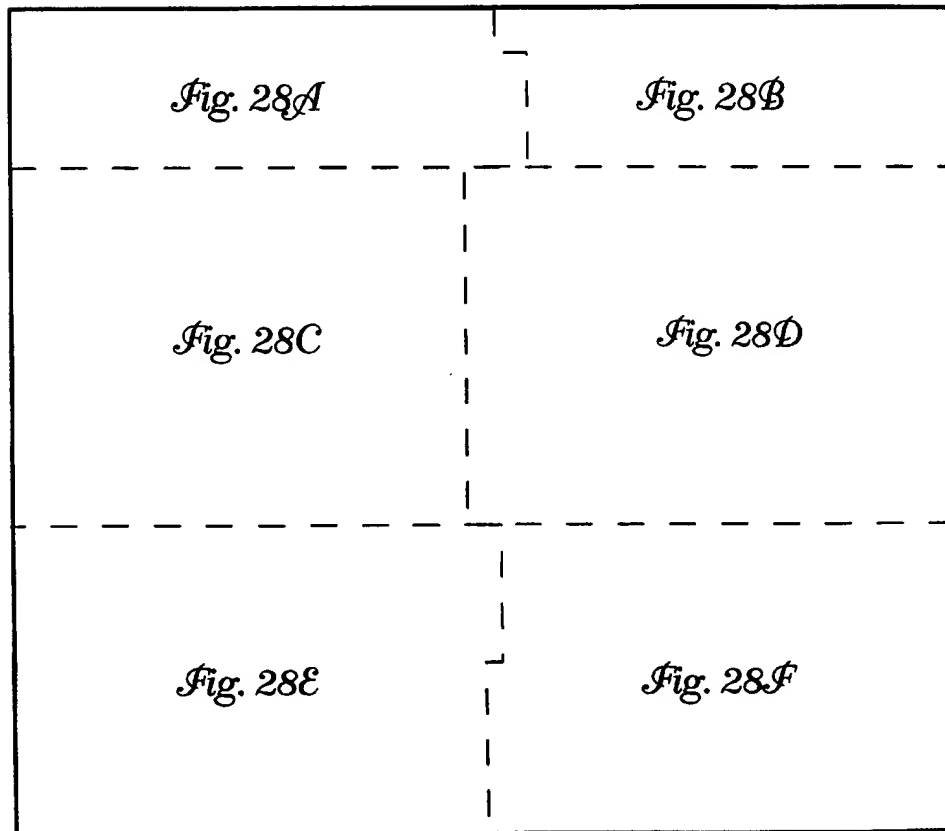


Fig. 27A



*Fig. 28*

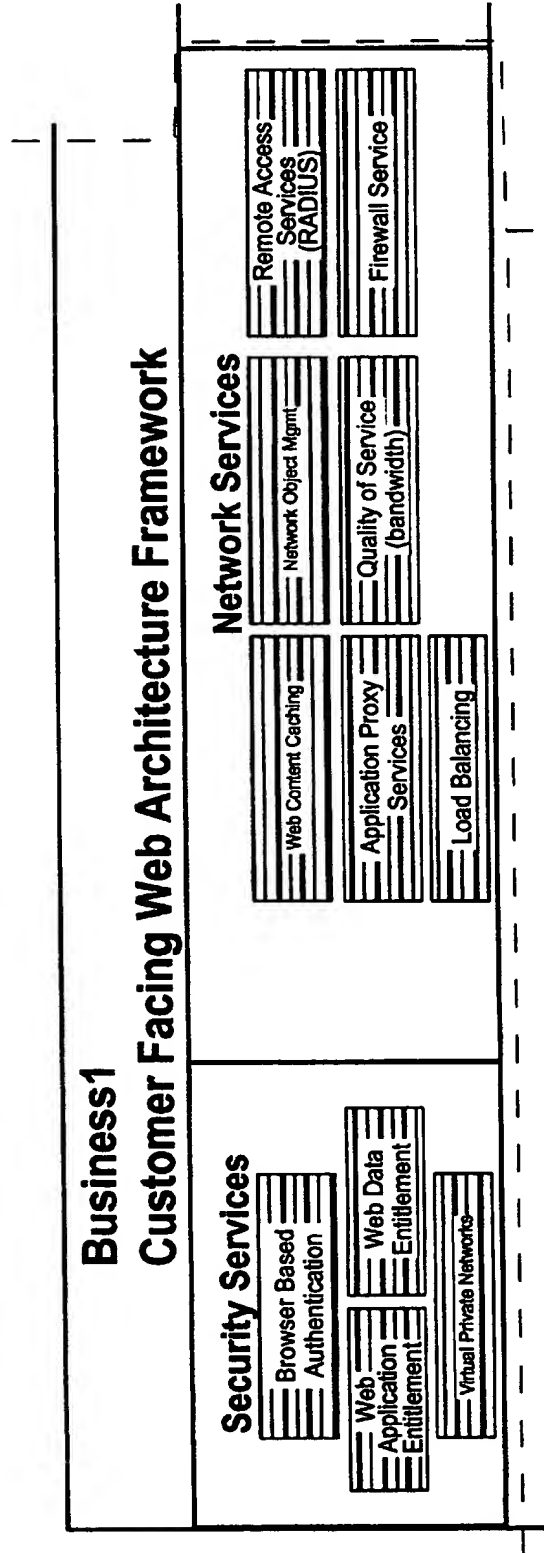


Fig. 28A

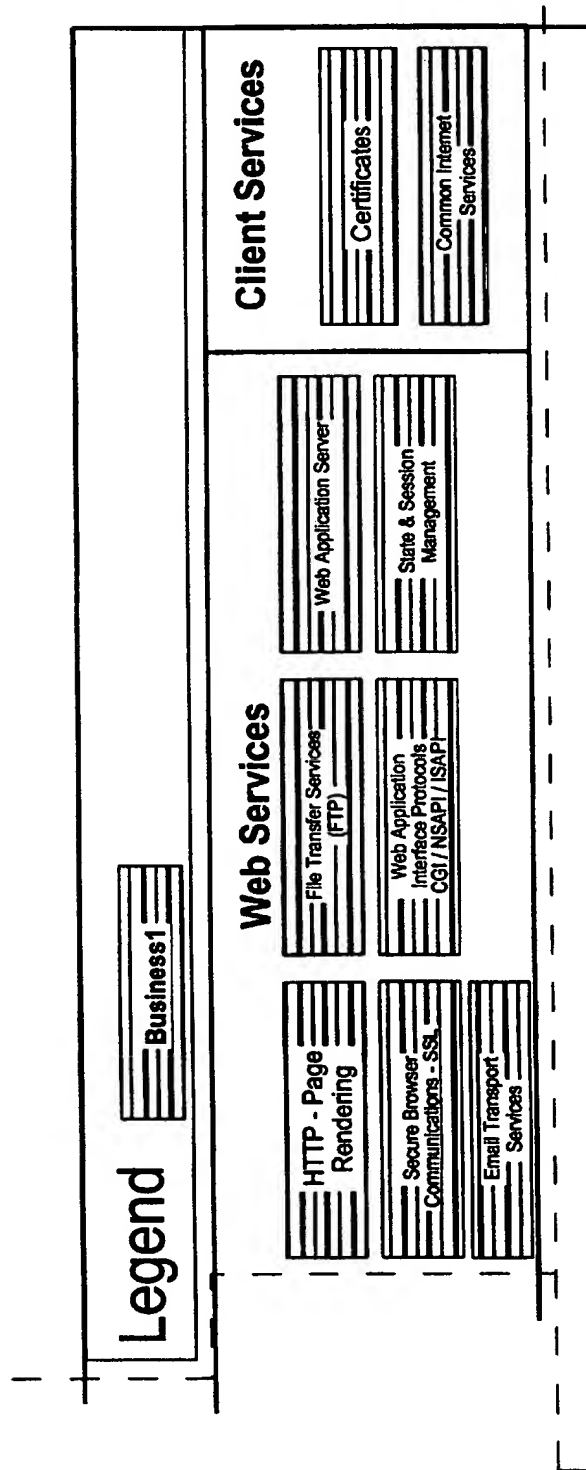


Fig. 28B



## Commerce

**Catalog Capabilities  
(products & services)**

## Product Details / Specs

## Shopping Cart

**Compare Products /  
Services**

**Needs Assessment /  
Buyer Assistant**

## Product Configurator

## Advertisement & Promotion Capabilities

## Auction Capabilities

**Quote (Price & Availability)**

## Order Placement

### Tax & Shipping Calculations

Transaction Processing Capabilities (physical &amp; electronic)

**Electronic License  
Distribution &  
Management**

## Order Status / Order History

## Lead Generation & Referral

## Content Channels

## Download Capabilities

## Push Technology Capabilities

**Discussion Forums**  
**(newsgroups)**

## Content Subscriptions

## FAQs

Chat Capabilities  
(Real-time)

**Generate Coordinated / Targeted Messages (outbound email)**

Manage Email Receipts  
& Delivery (Inbound  
email)

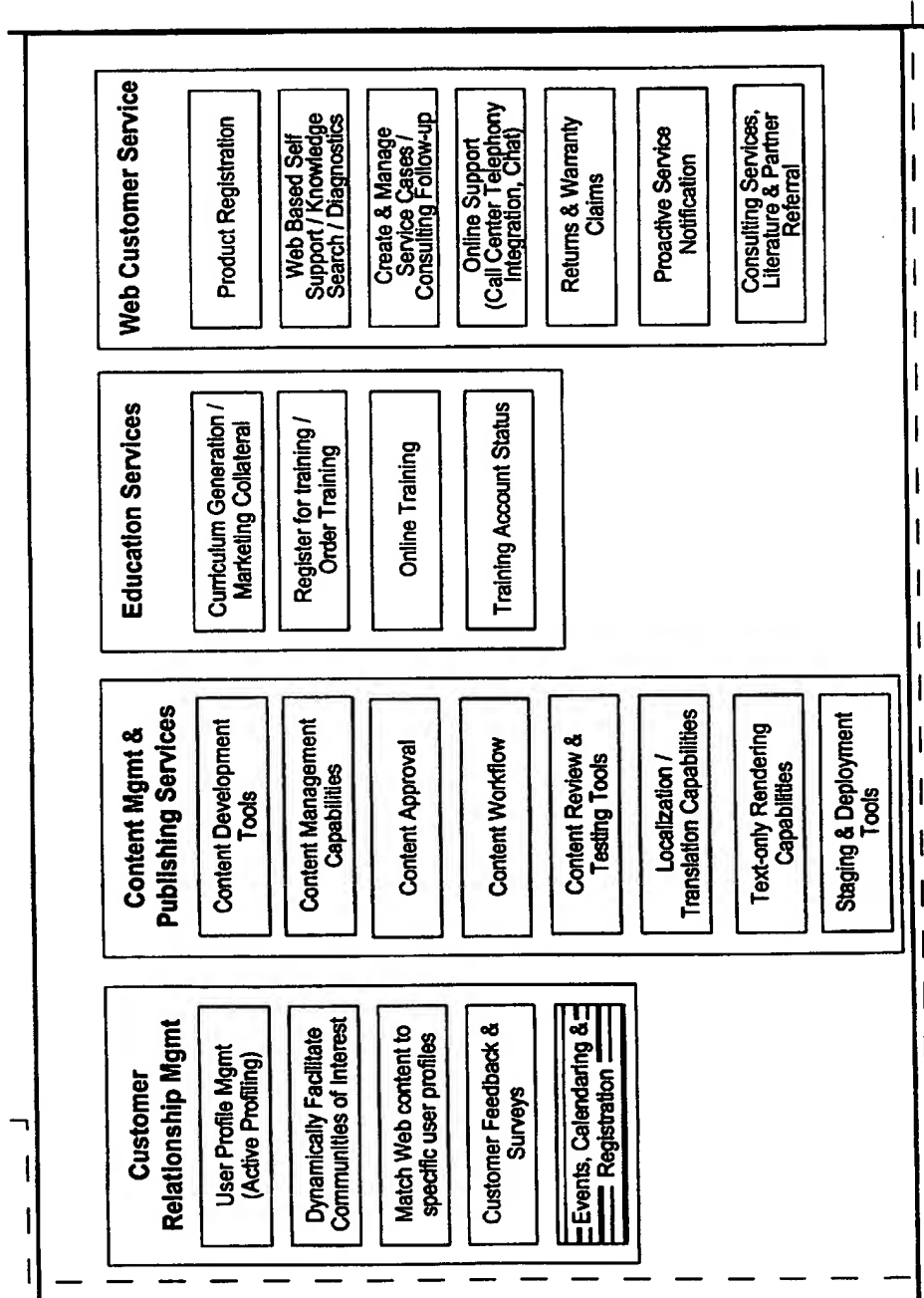
**Dynamic Rendering  
(template based  
publishing)**

## Administrative & Miscellaneous

Shareholder Services

## On-line Recruiting

## Legal Services



*Fig. 28D*

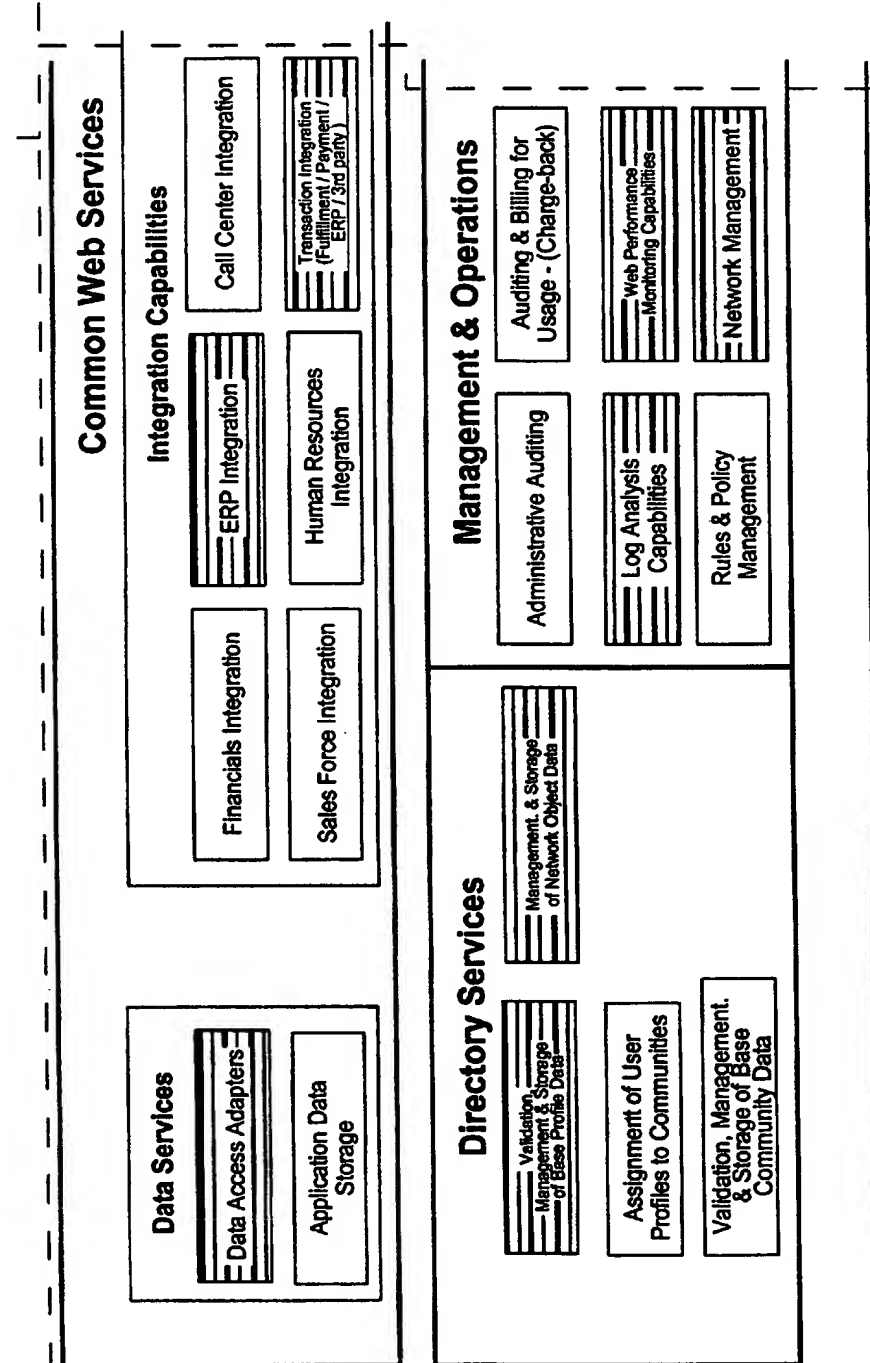


Fig. 28E

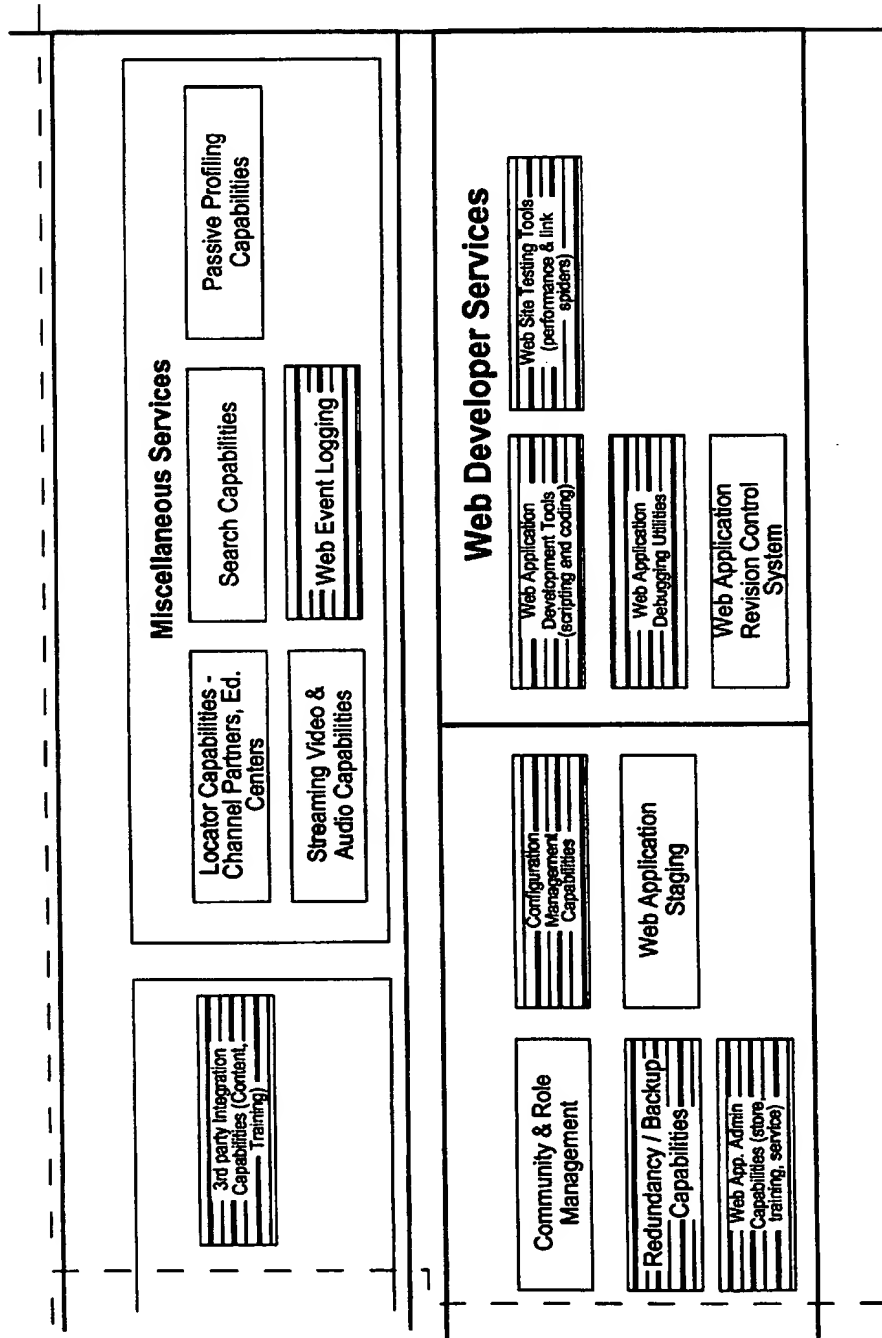
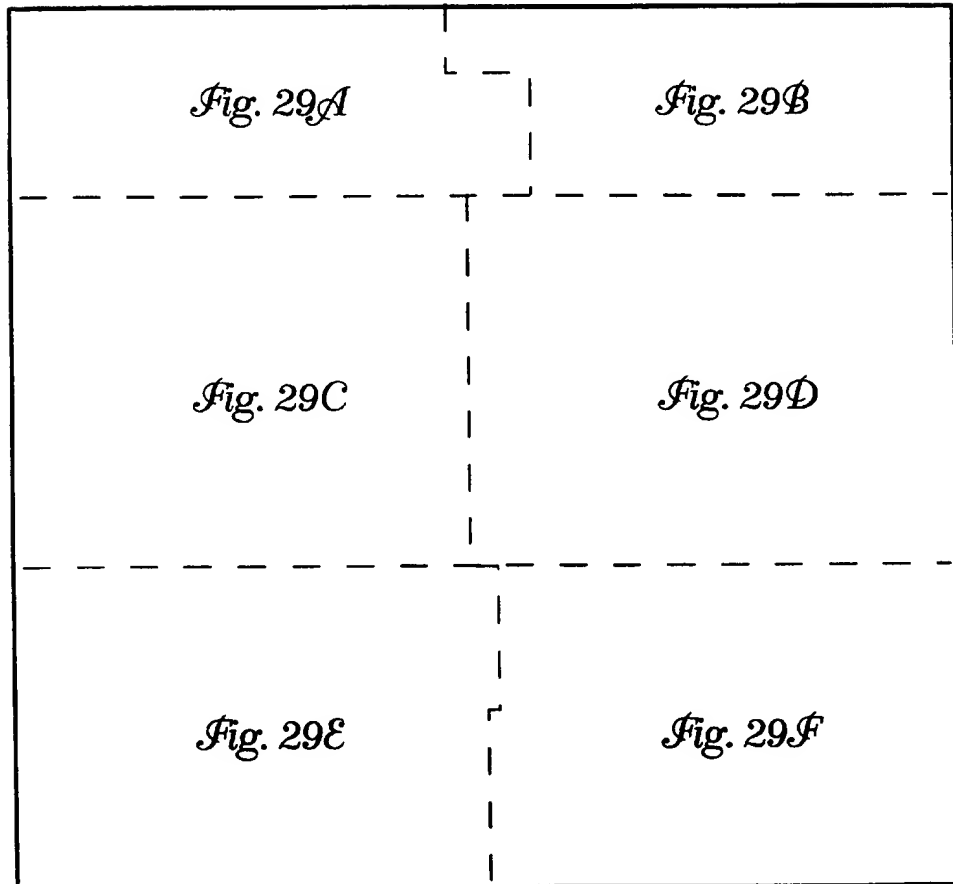


Fig. 28F



*Fig. 29*

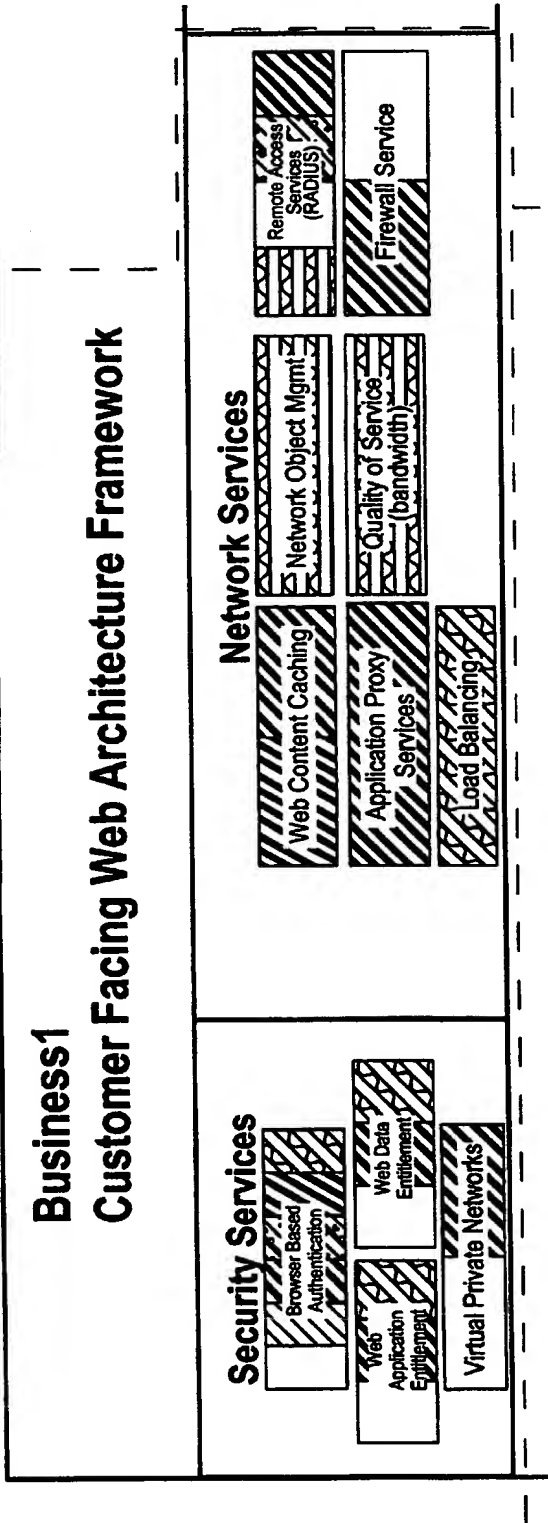


Fig. 29A

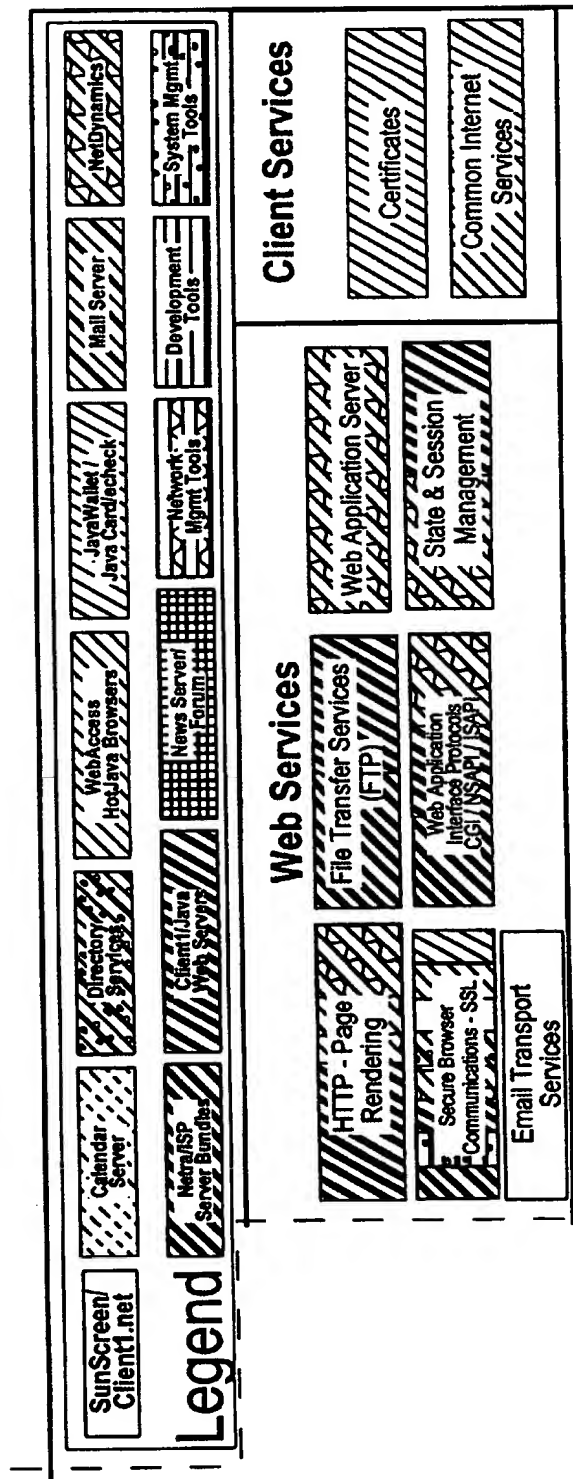


Fig. 29B

## Web Application Services

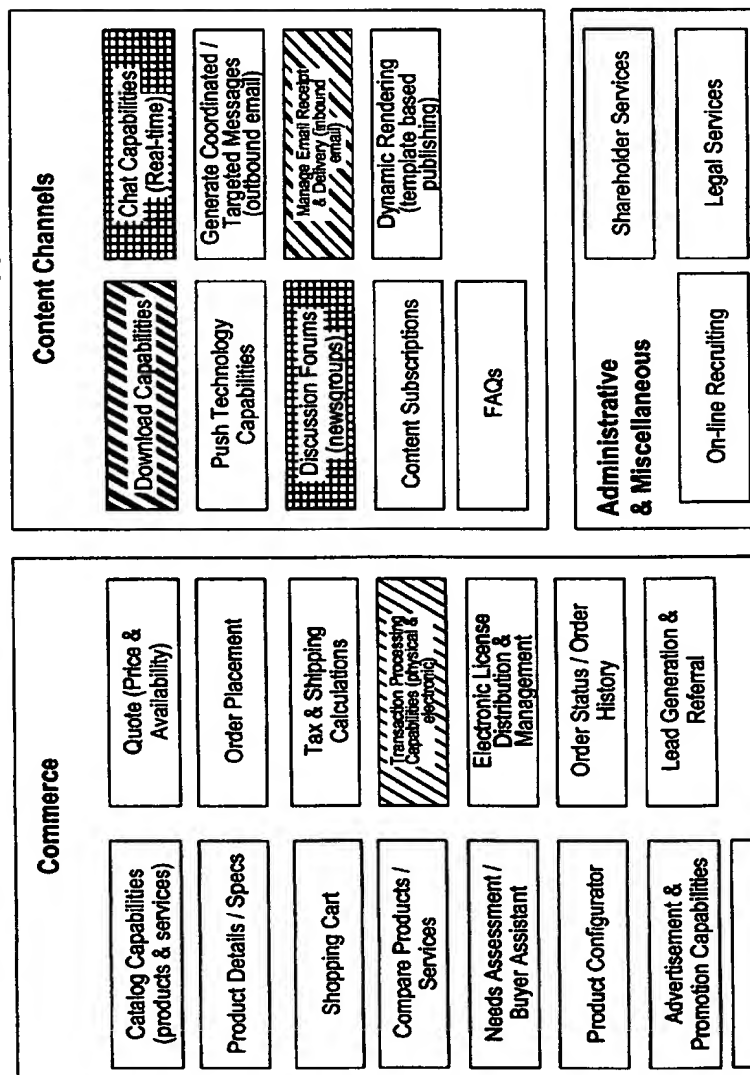


Fig. 29C



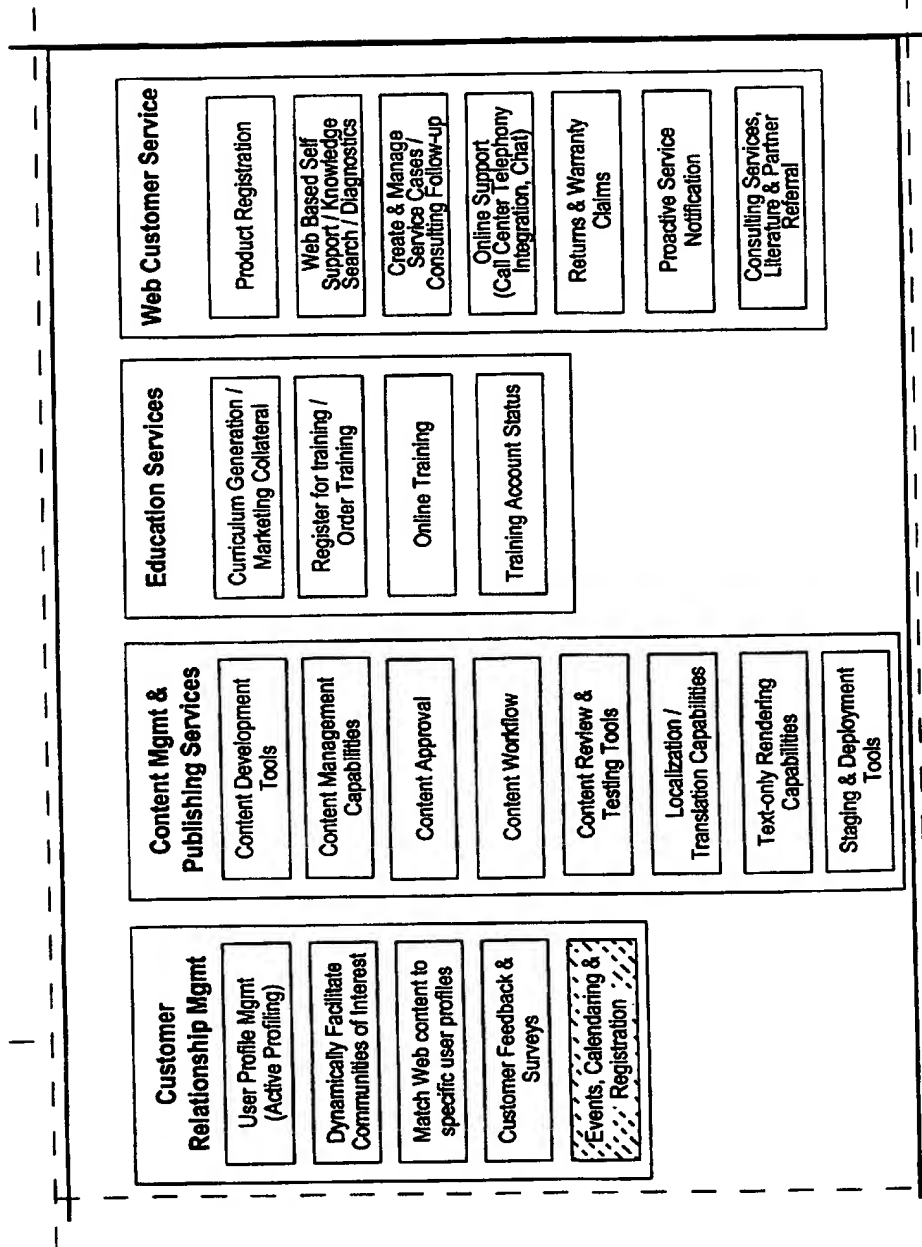


Fig. 29D

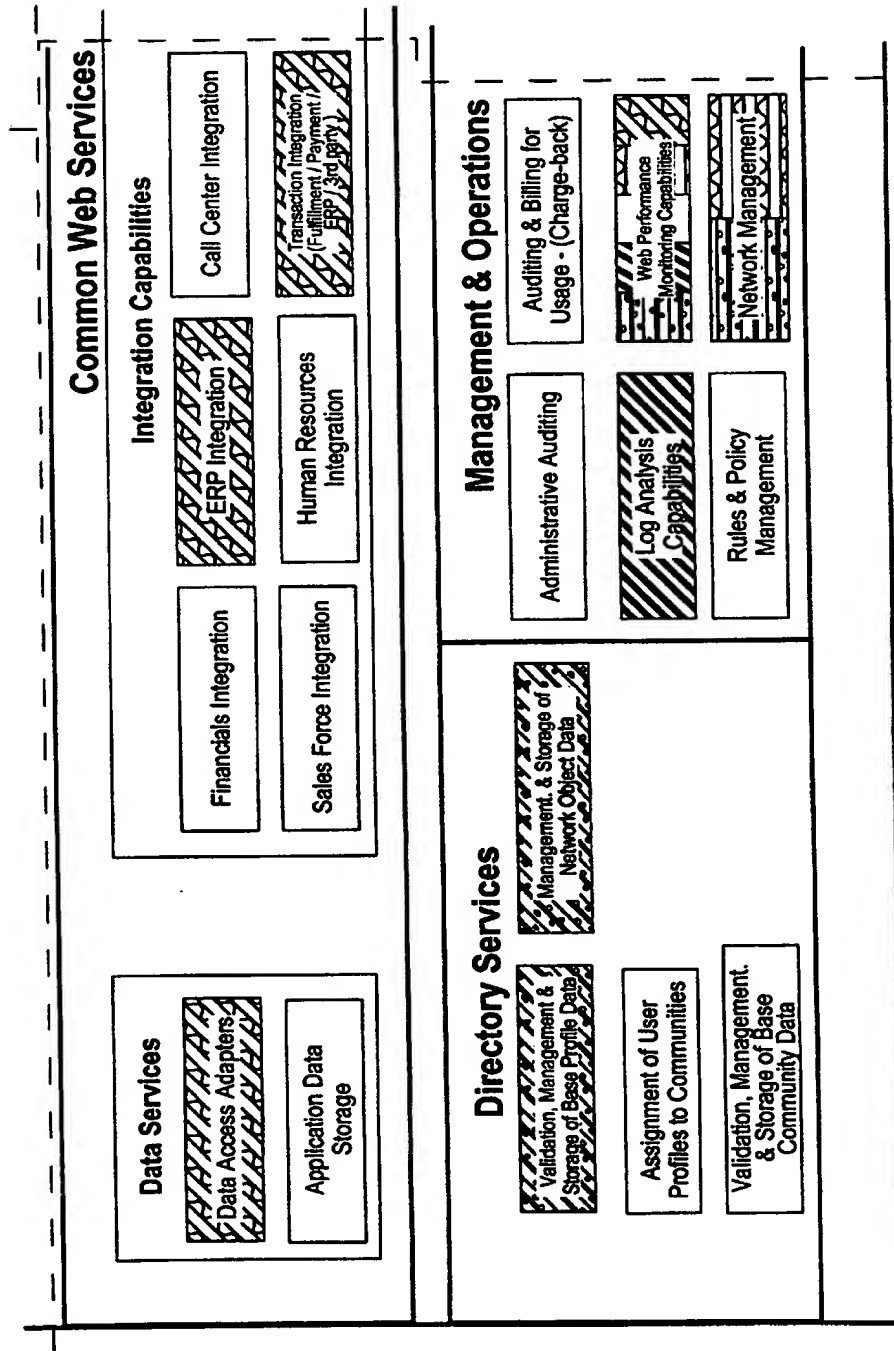
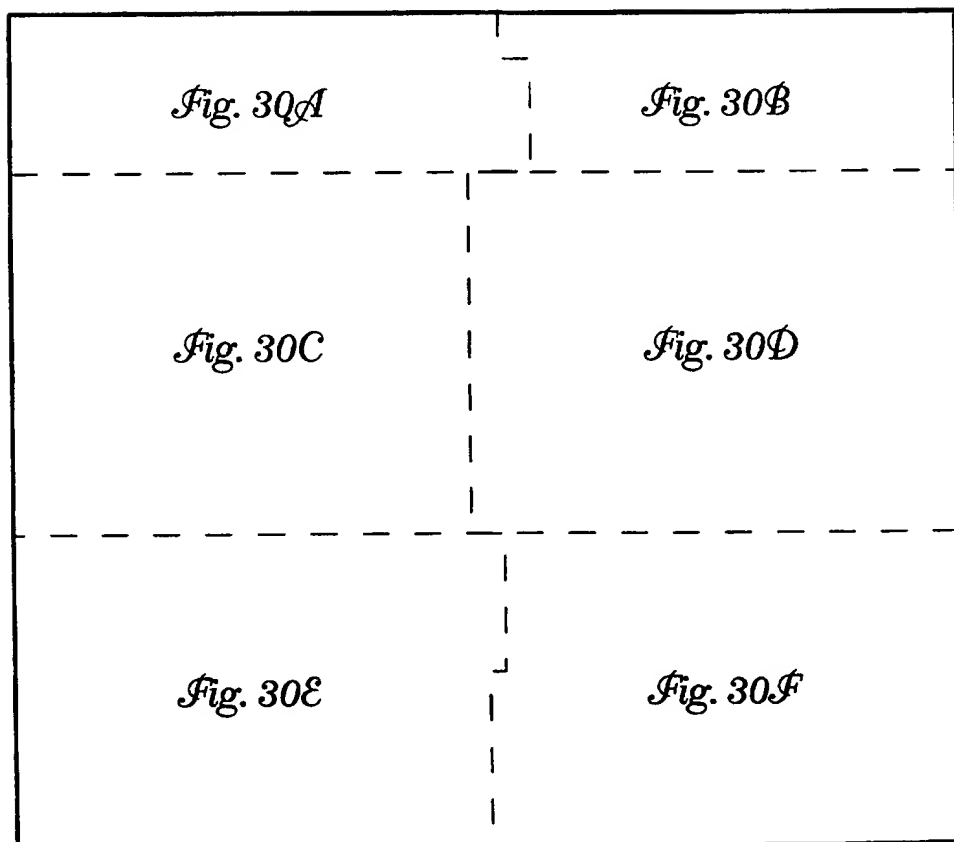


Fig. 29E

Fig. 29f



*Fig. 30*

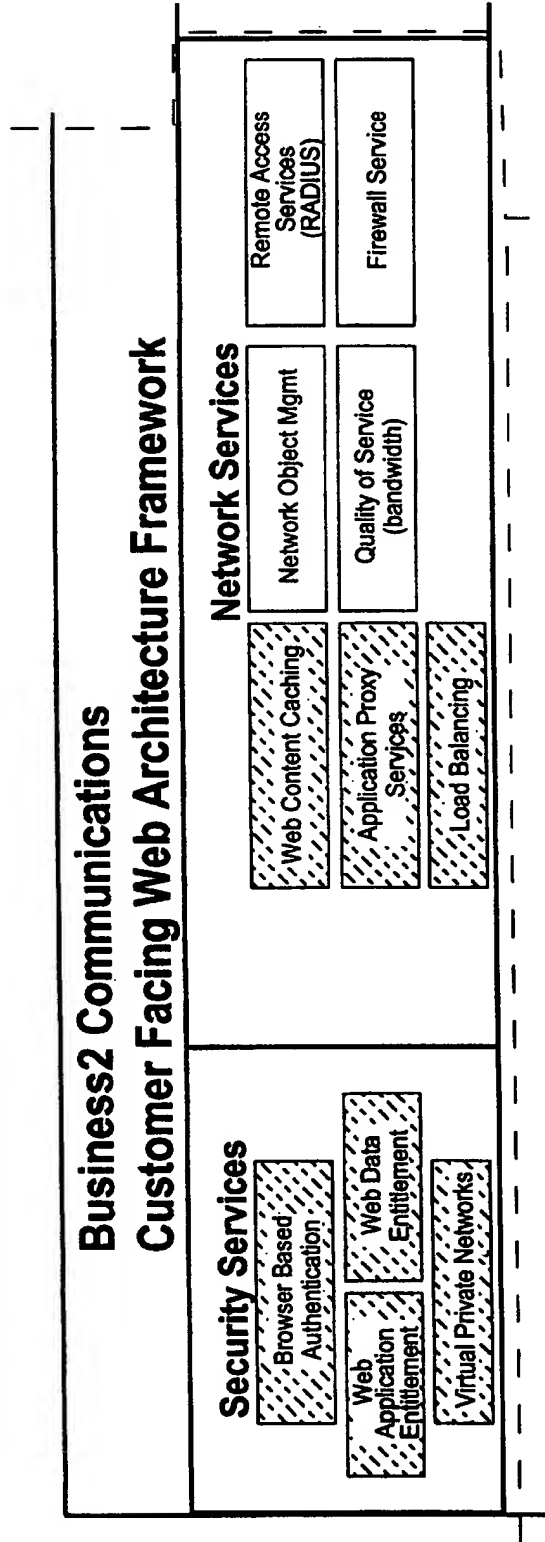


Fig. 30A

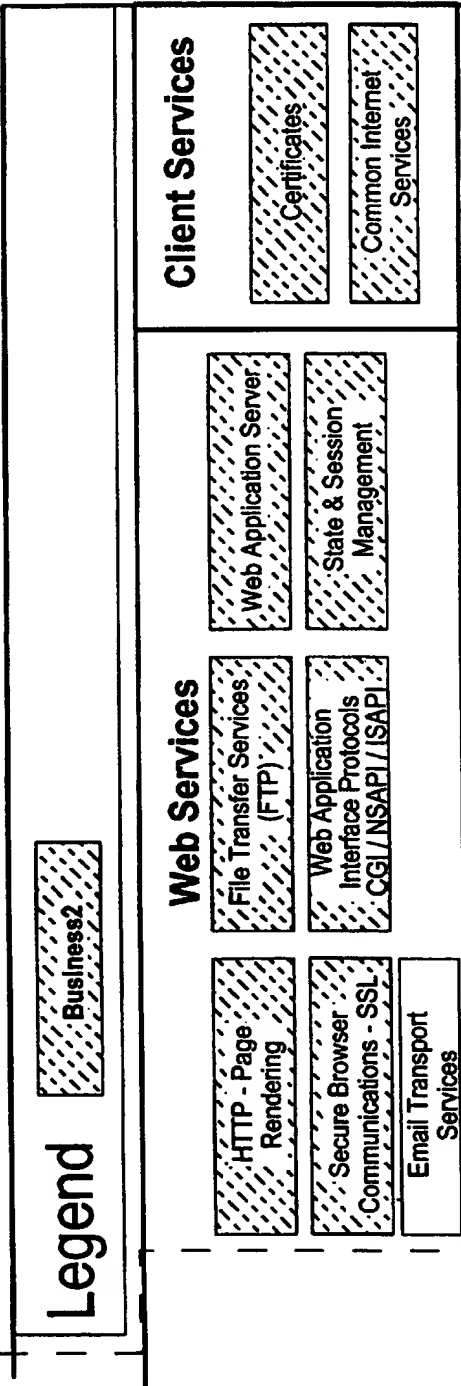


Fig. 30B

## Web Application Services

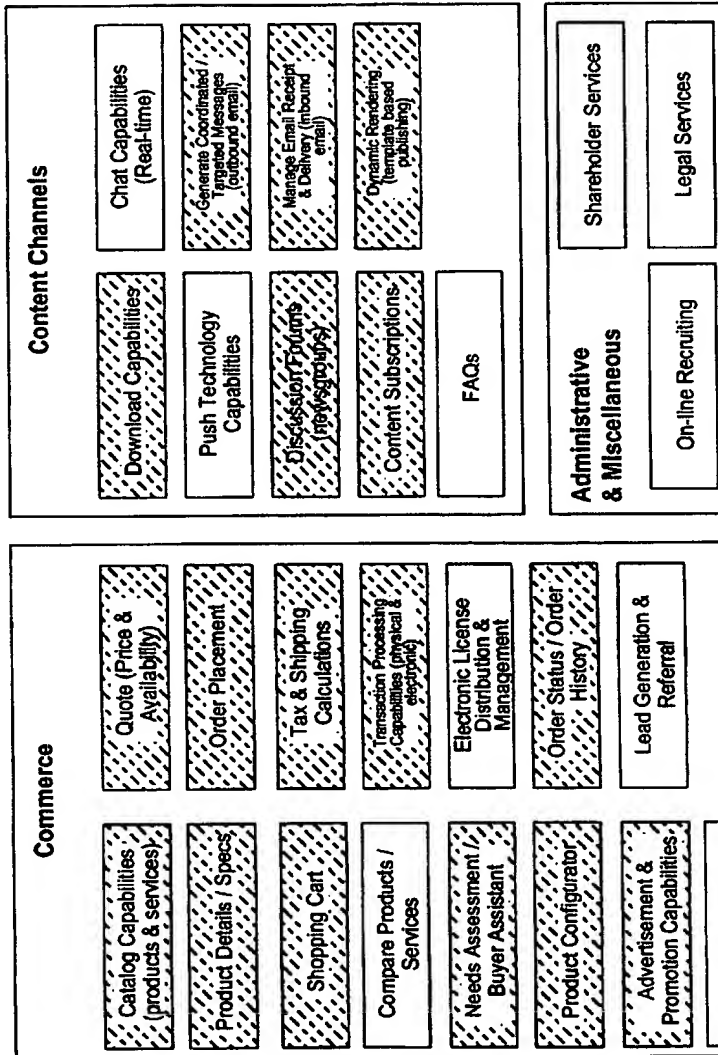
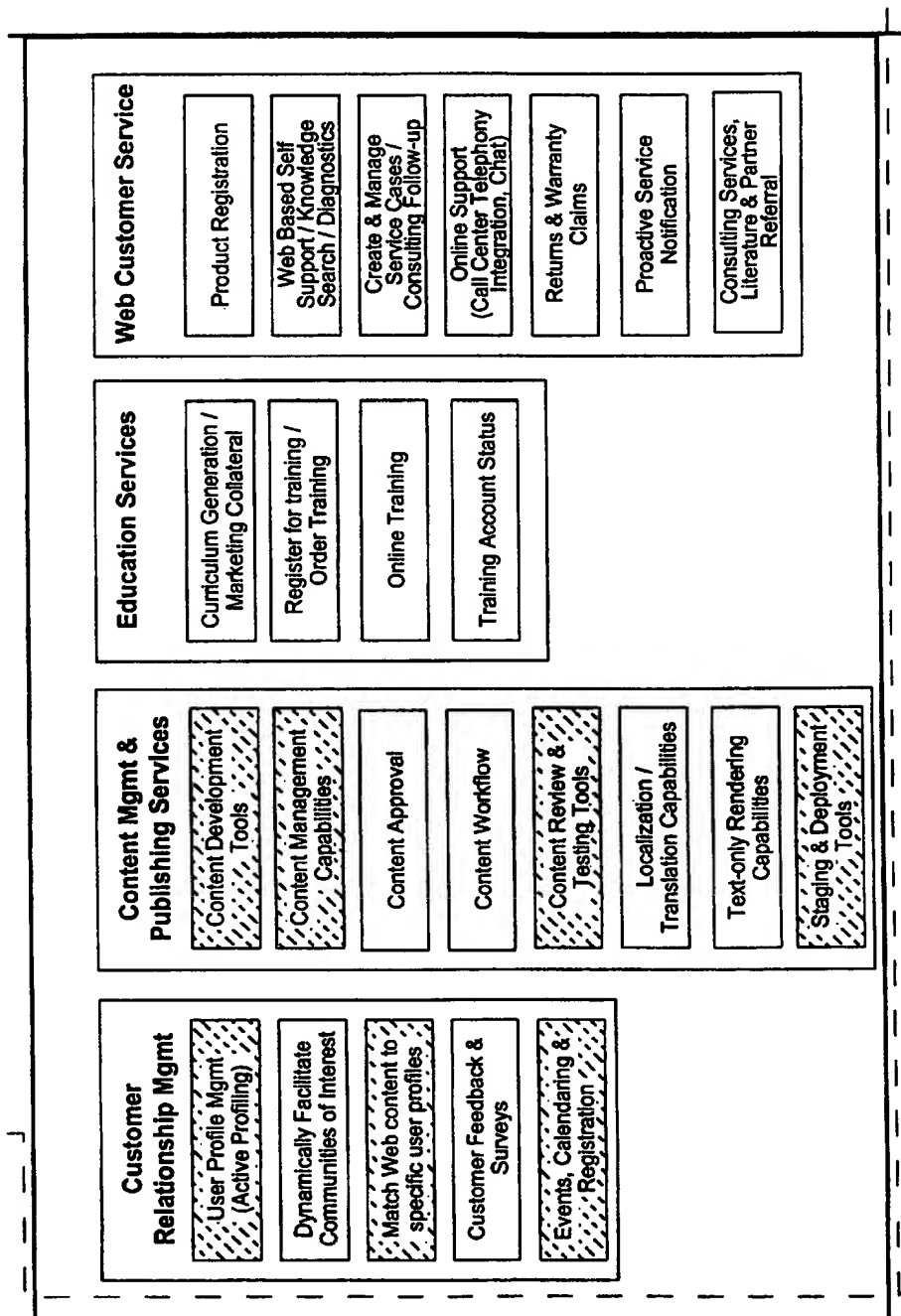


Fig. 30C



*Fig. 30D*



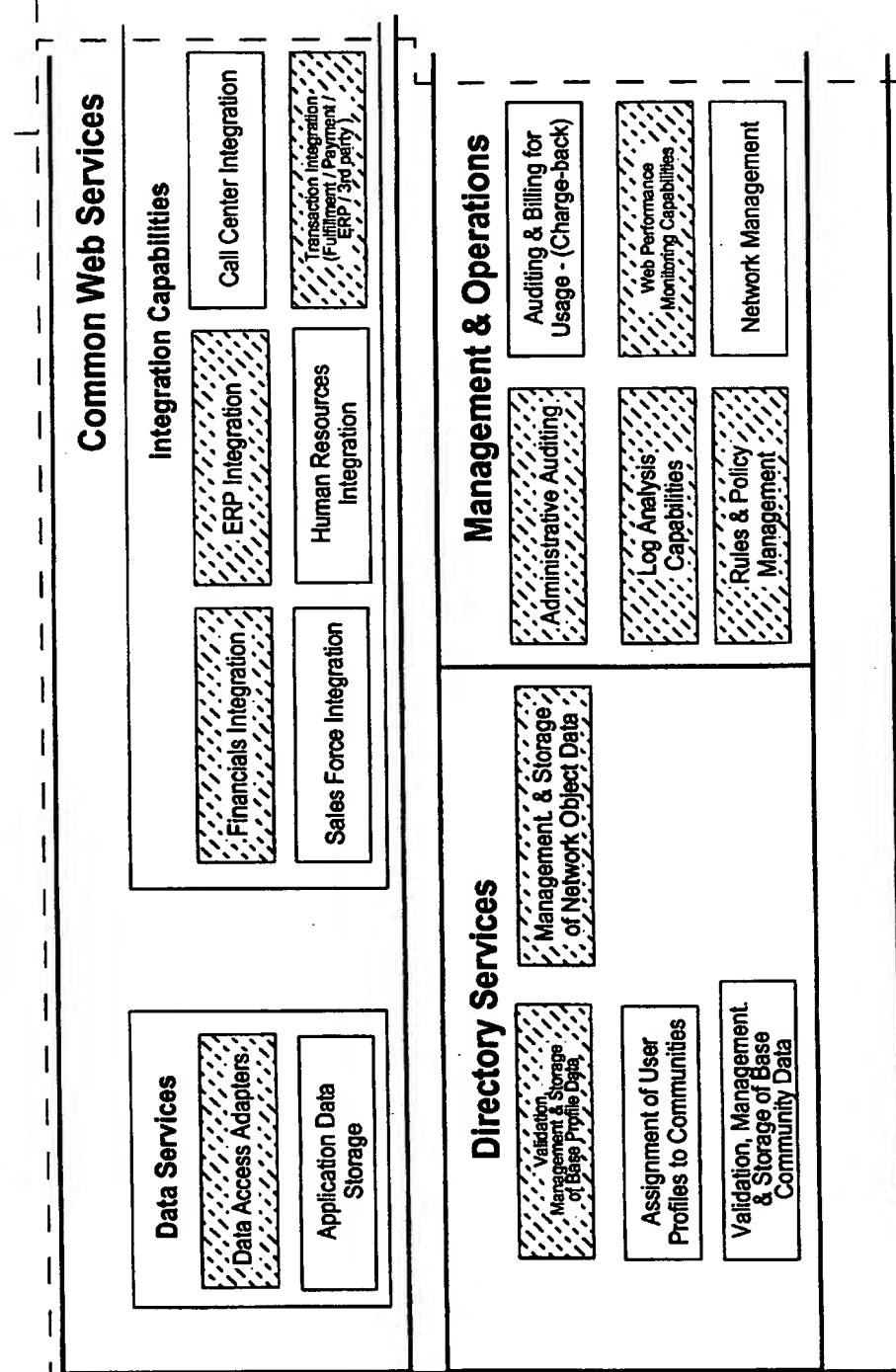
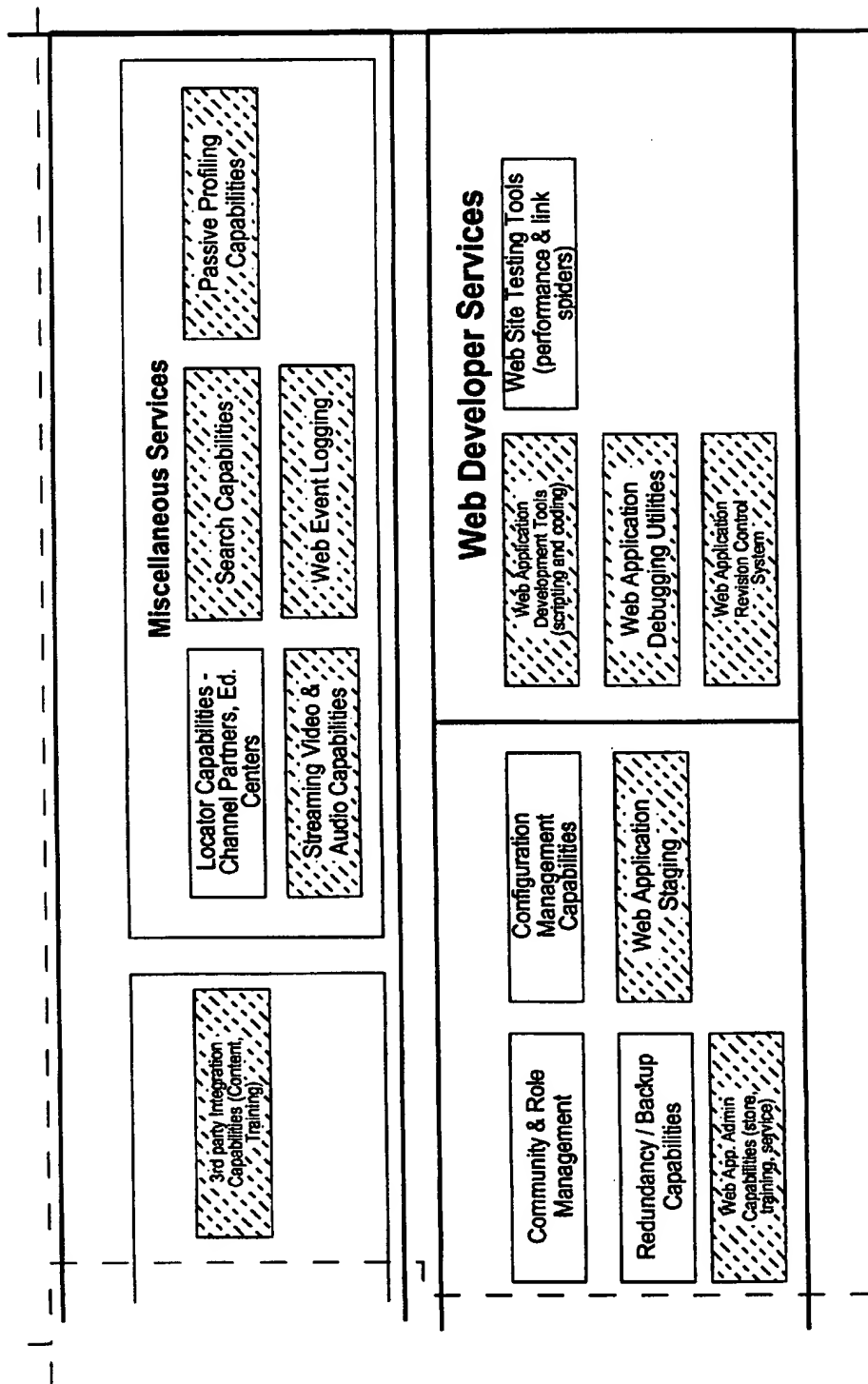
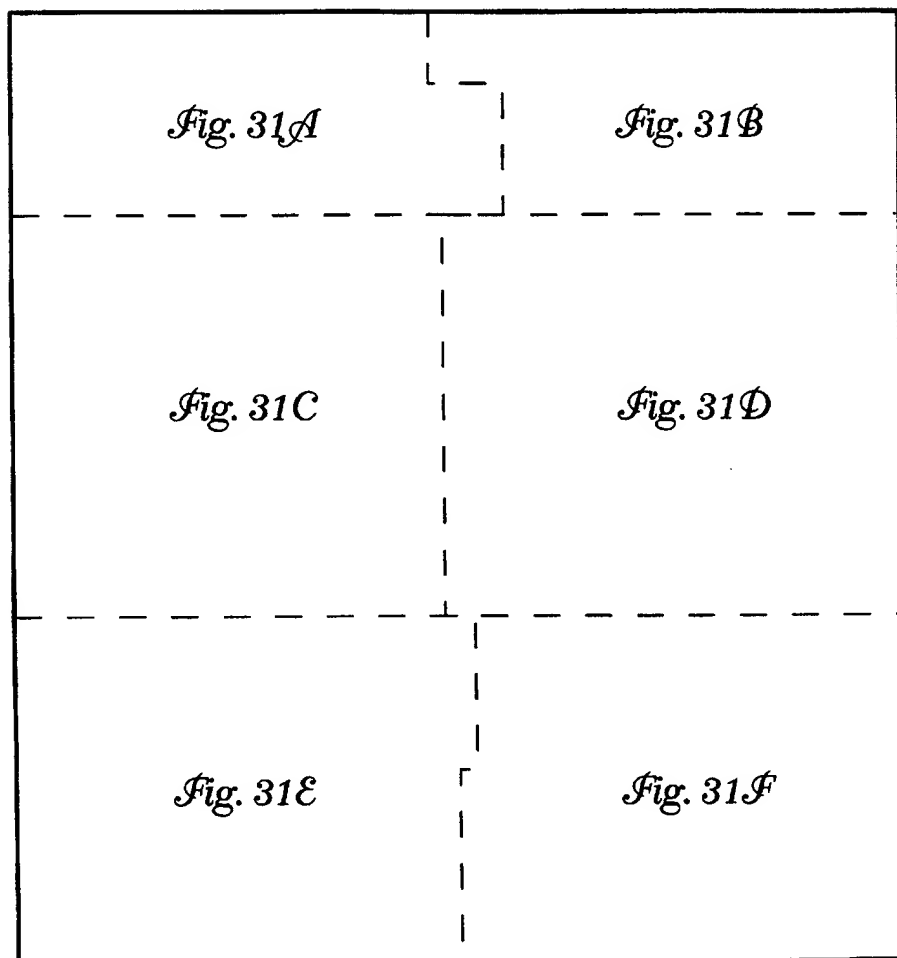


Fig. 30E



*Fig. 30F*



*Fig. 31*

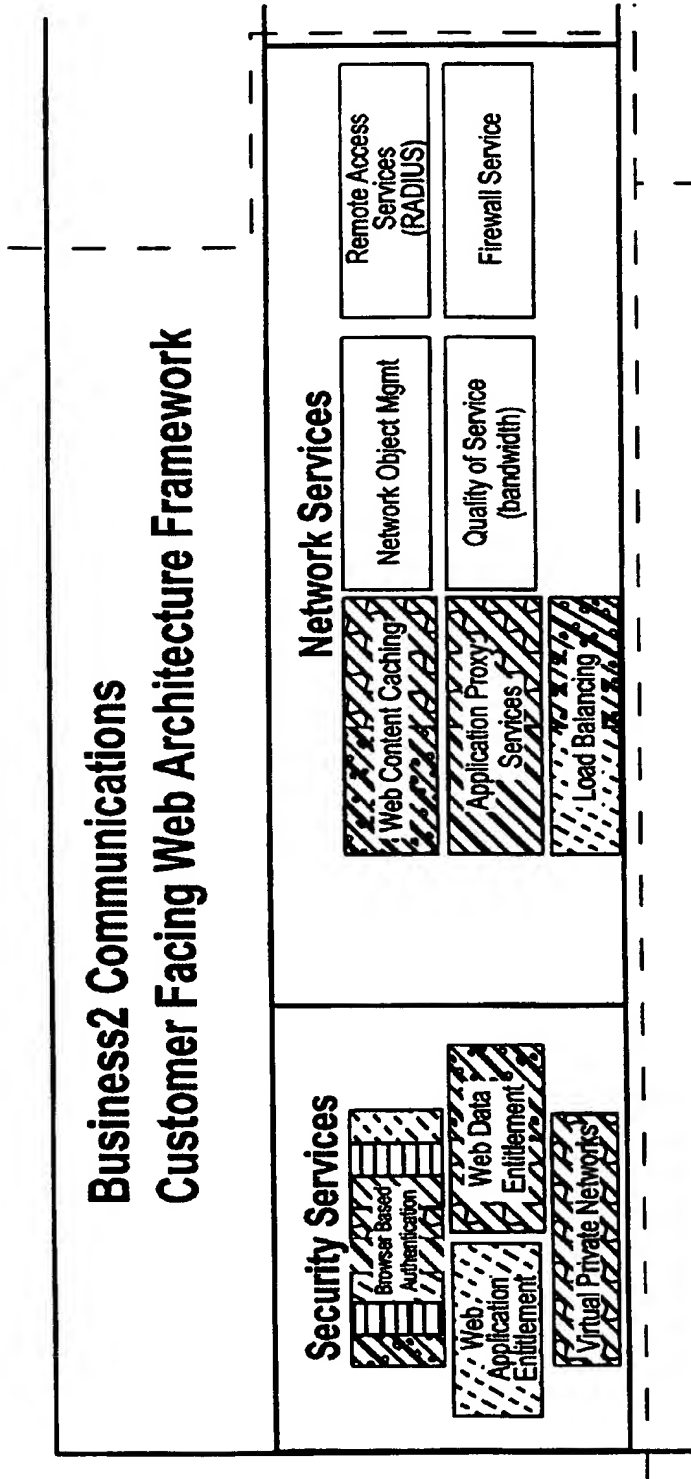


Fig. 31A

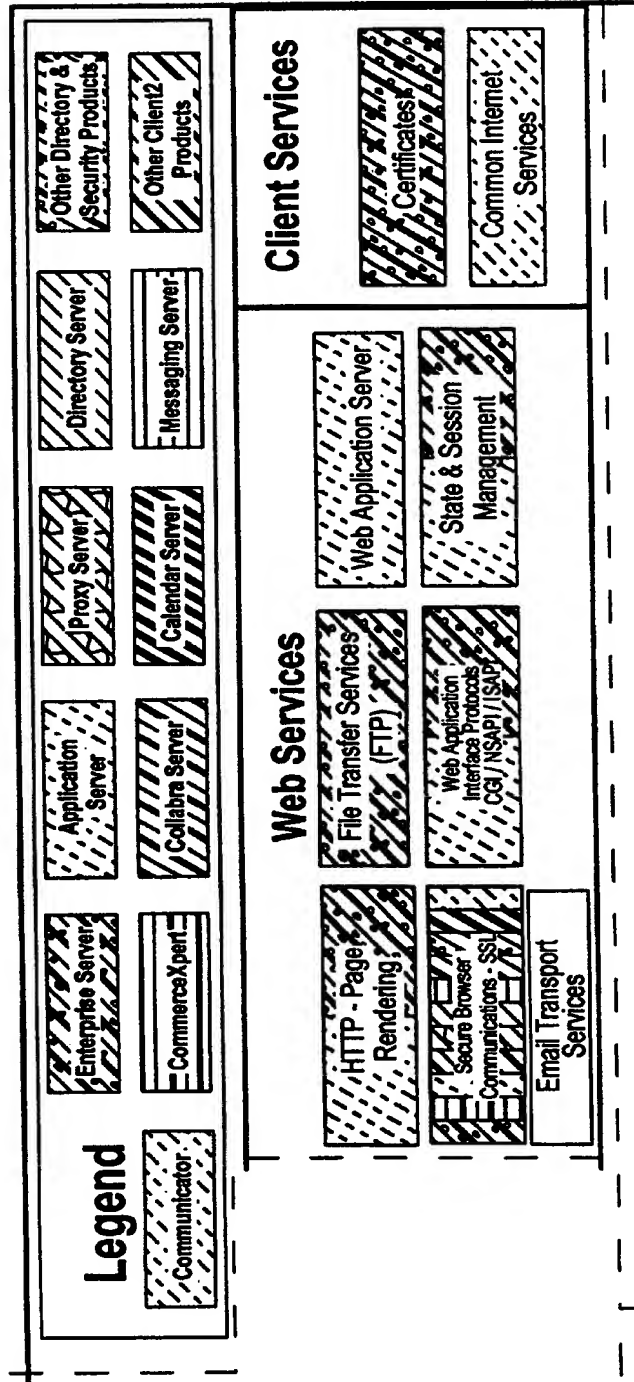
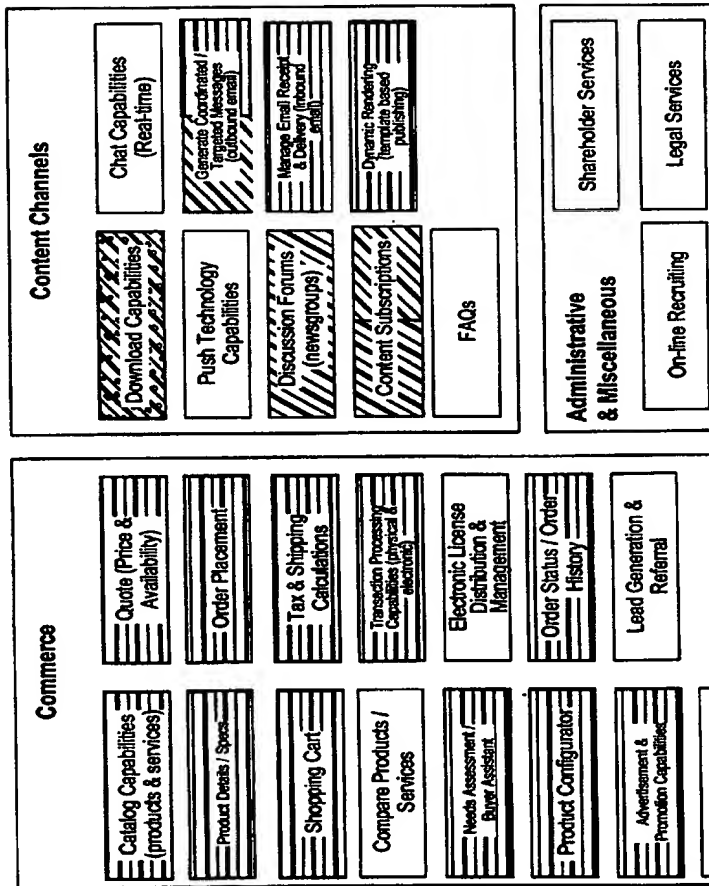


Fig. 31B

**Web Application Services**



*Fig. 31C*

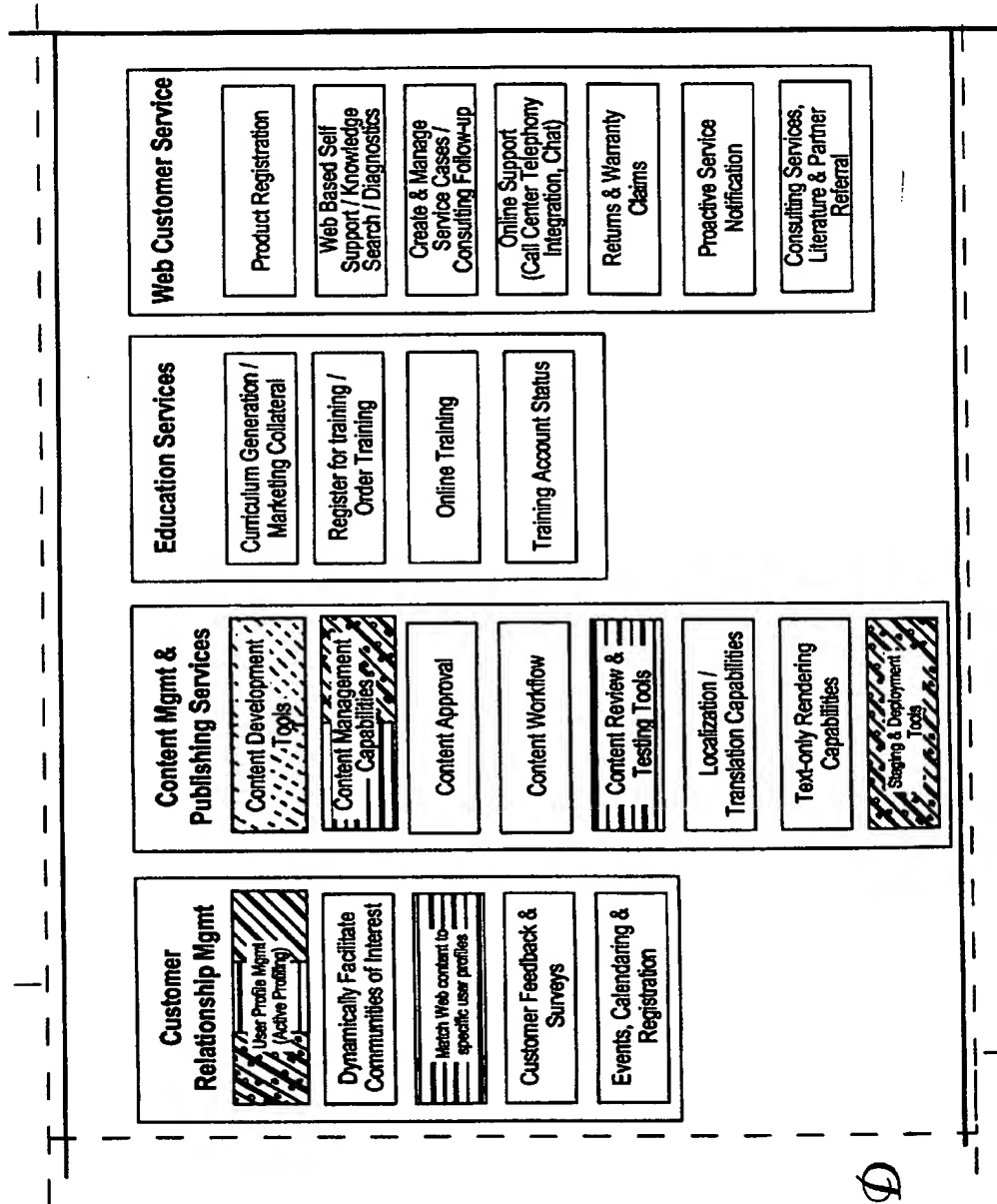


Fig. 31D

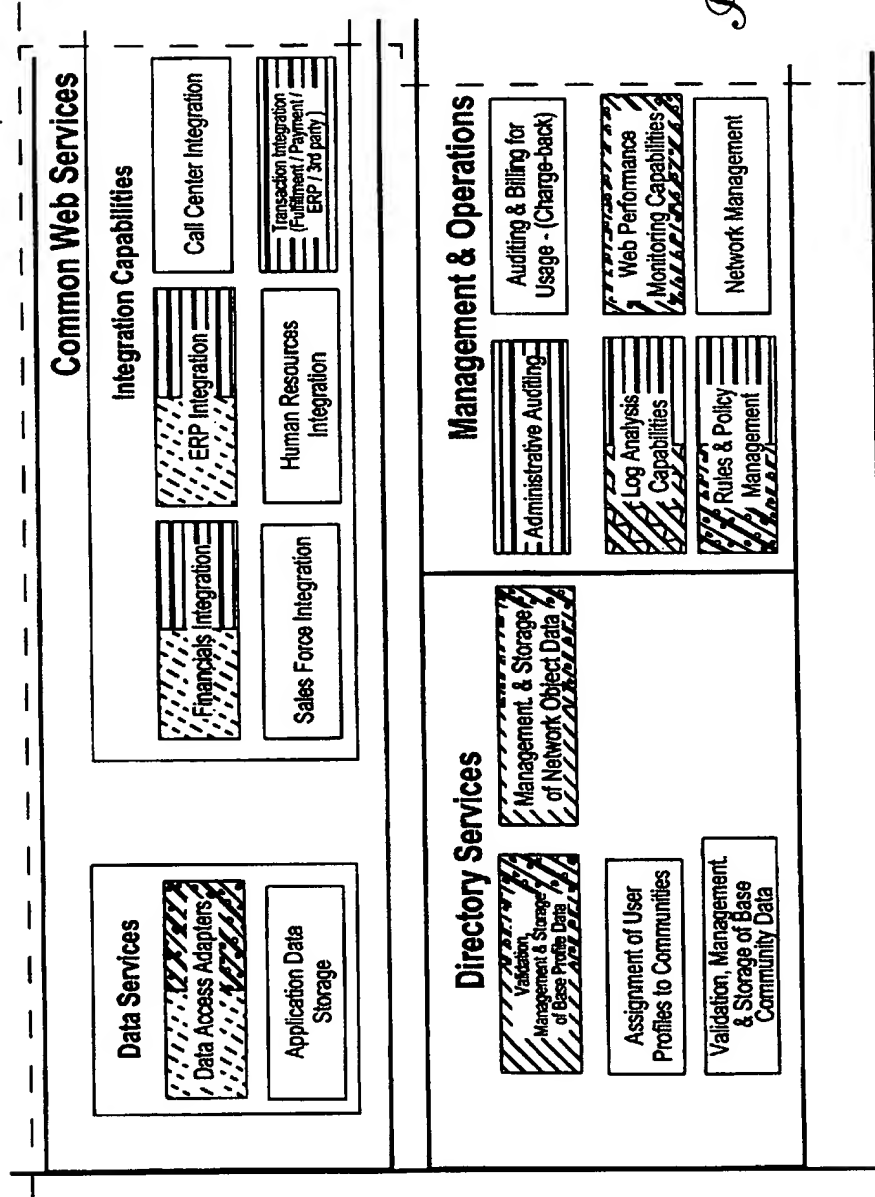


Fig. 31E



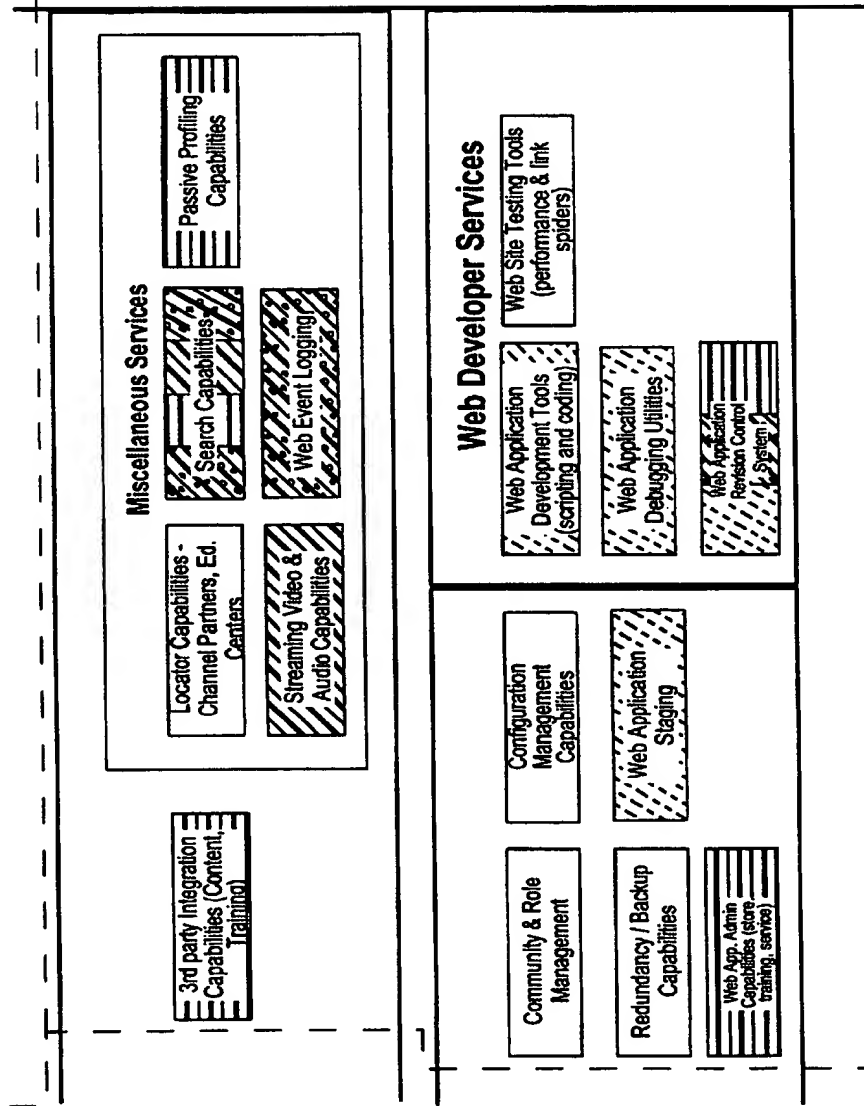
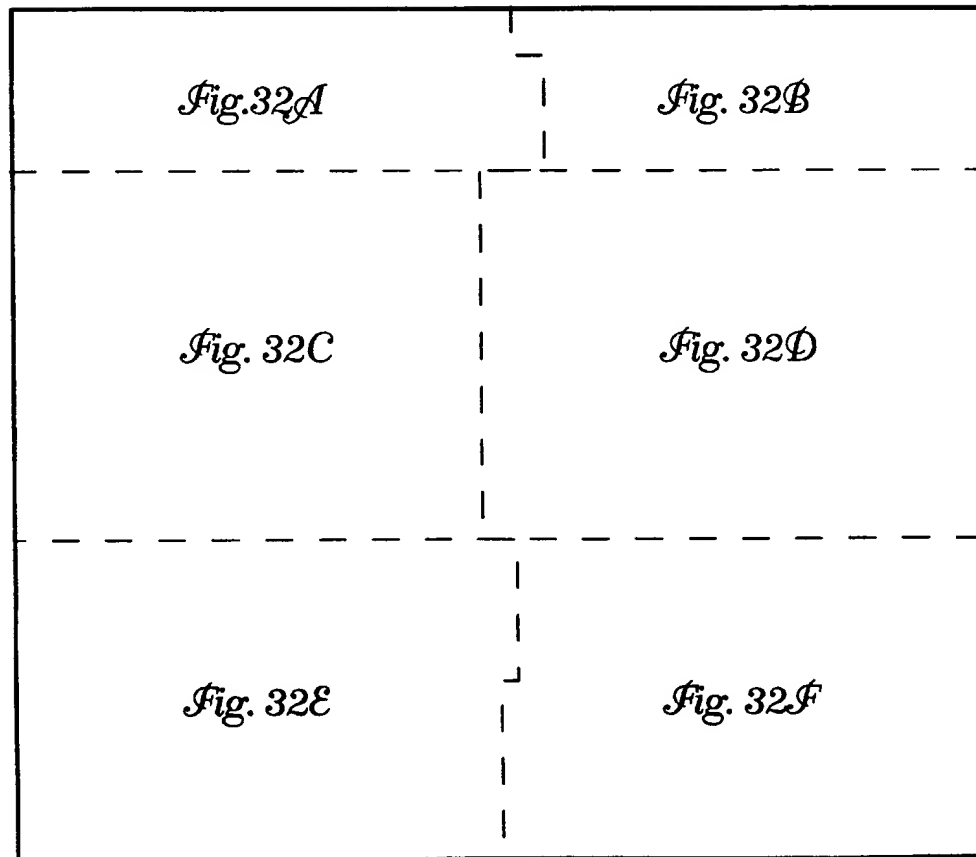
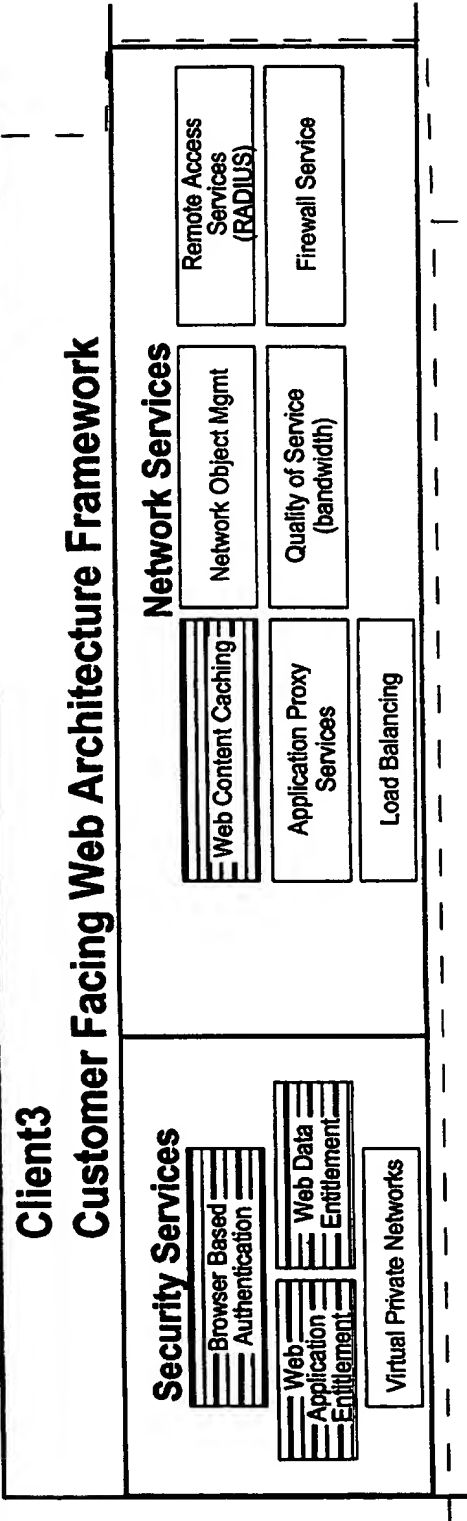


Fig. 31F



*Fig. 32*



*Fig. 32A*

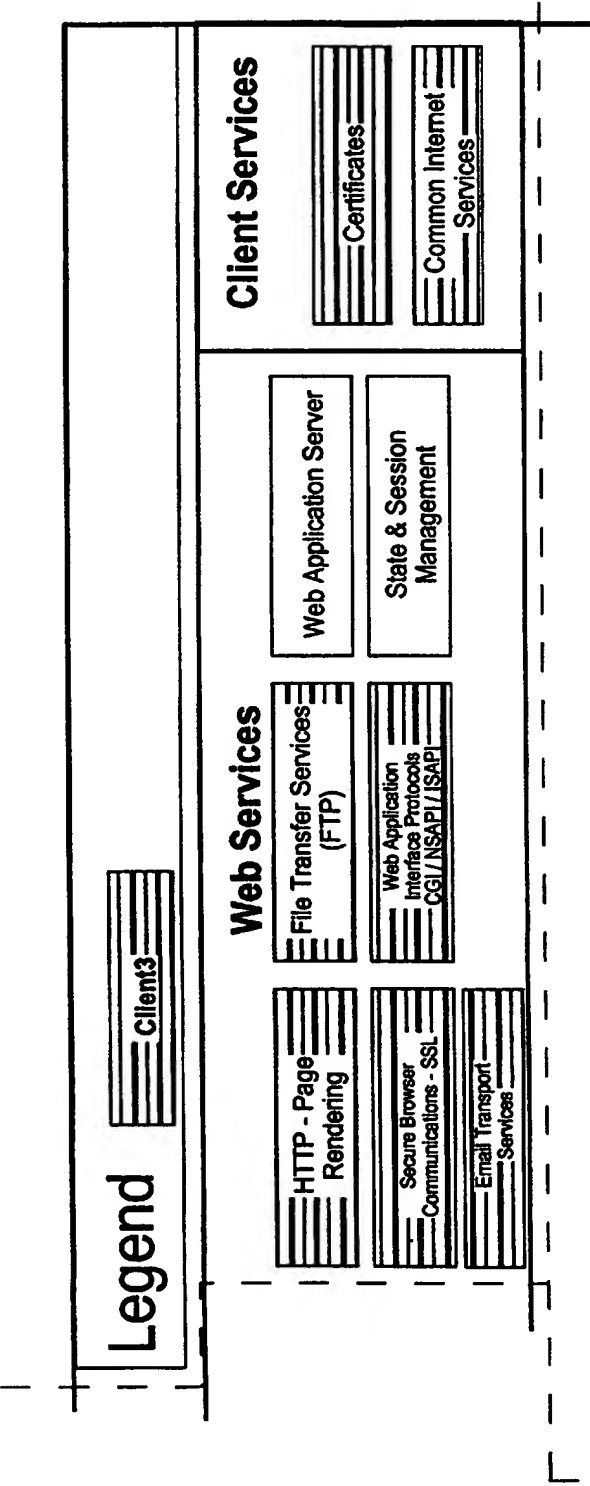


Fig. 32B

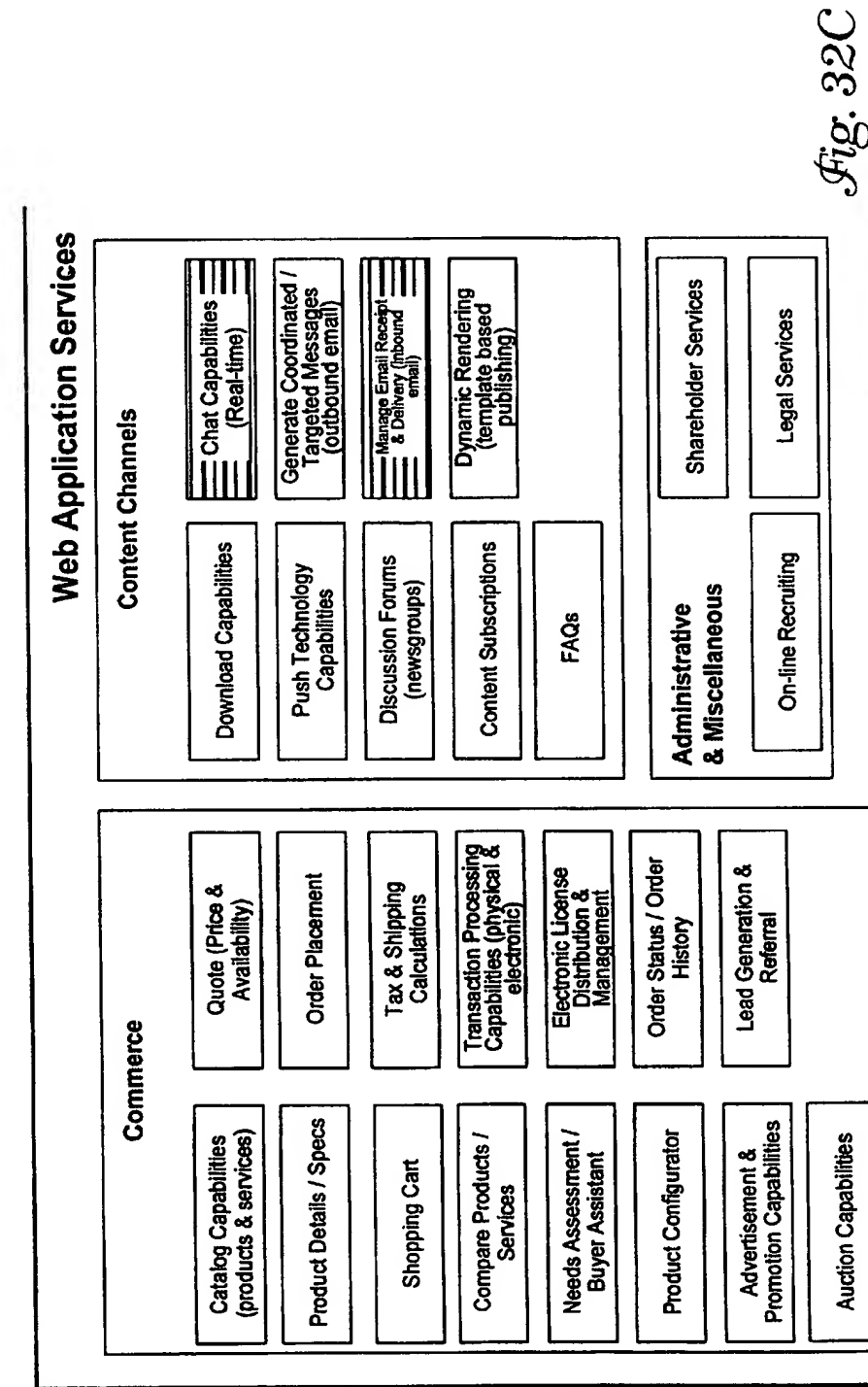


Fig. 32C

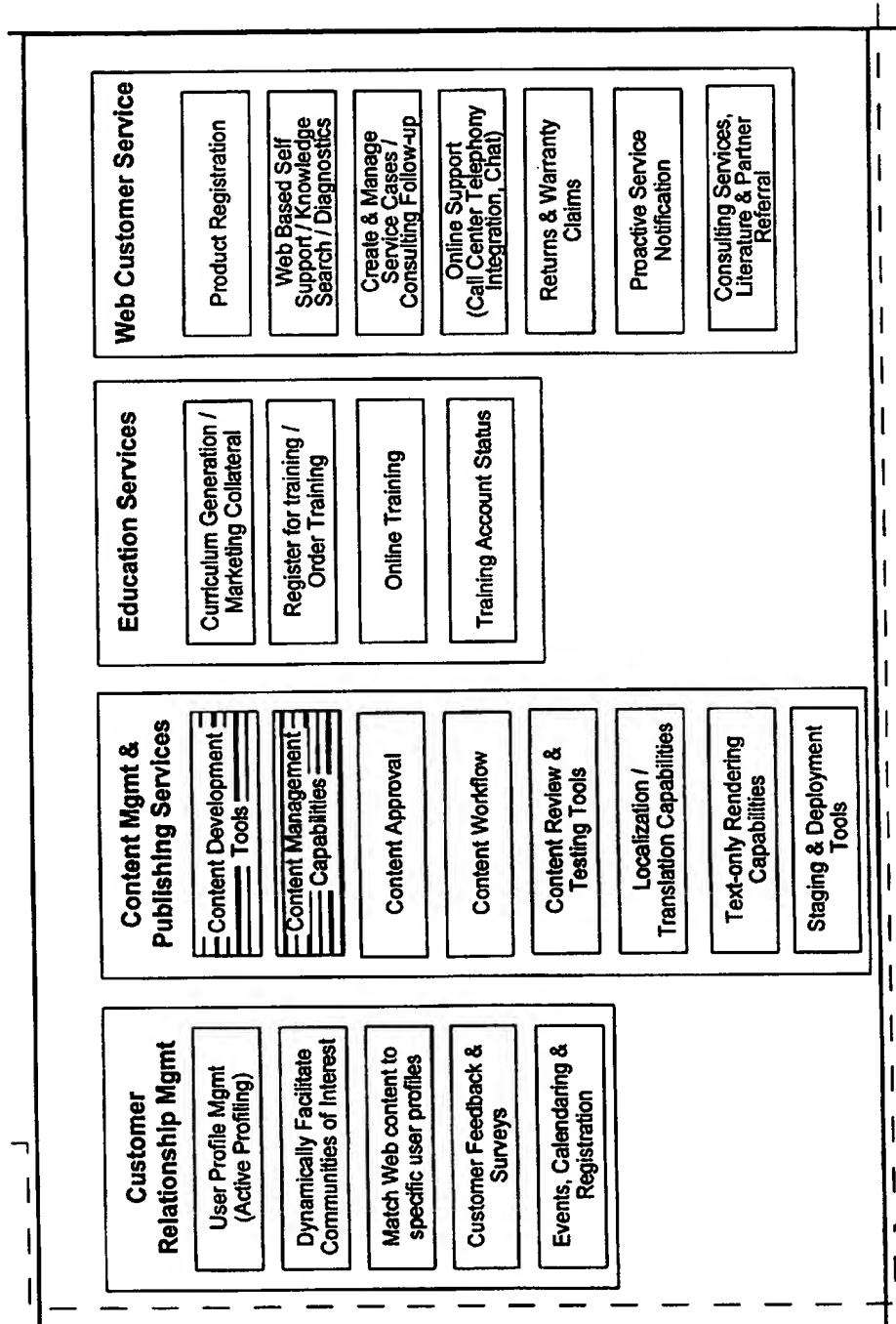


Fig. 32D

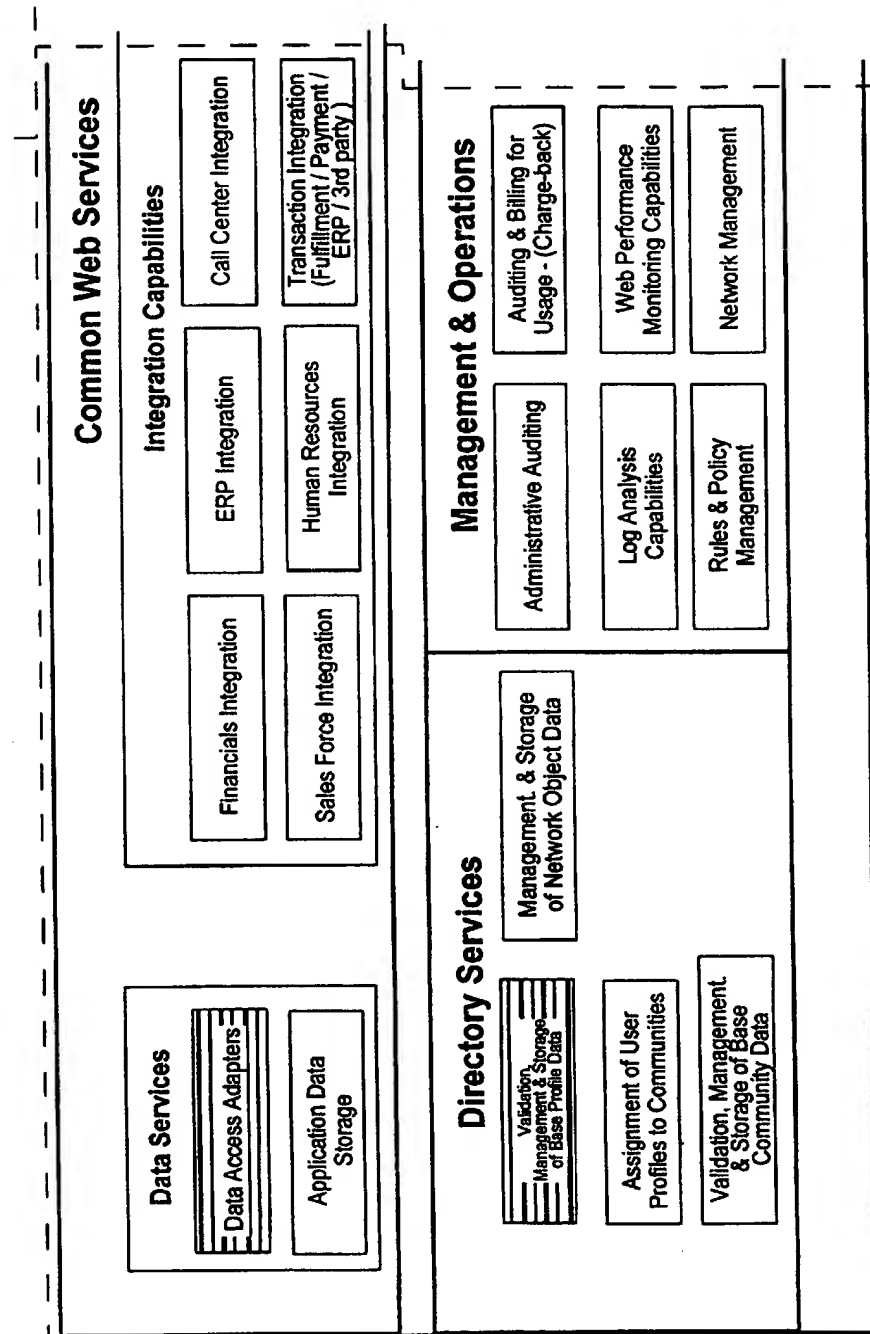


Fig. 32E

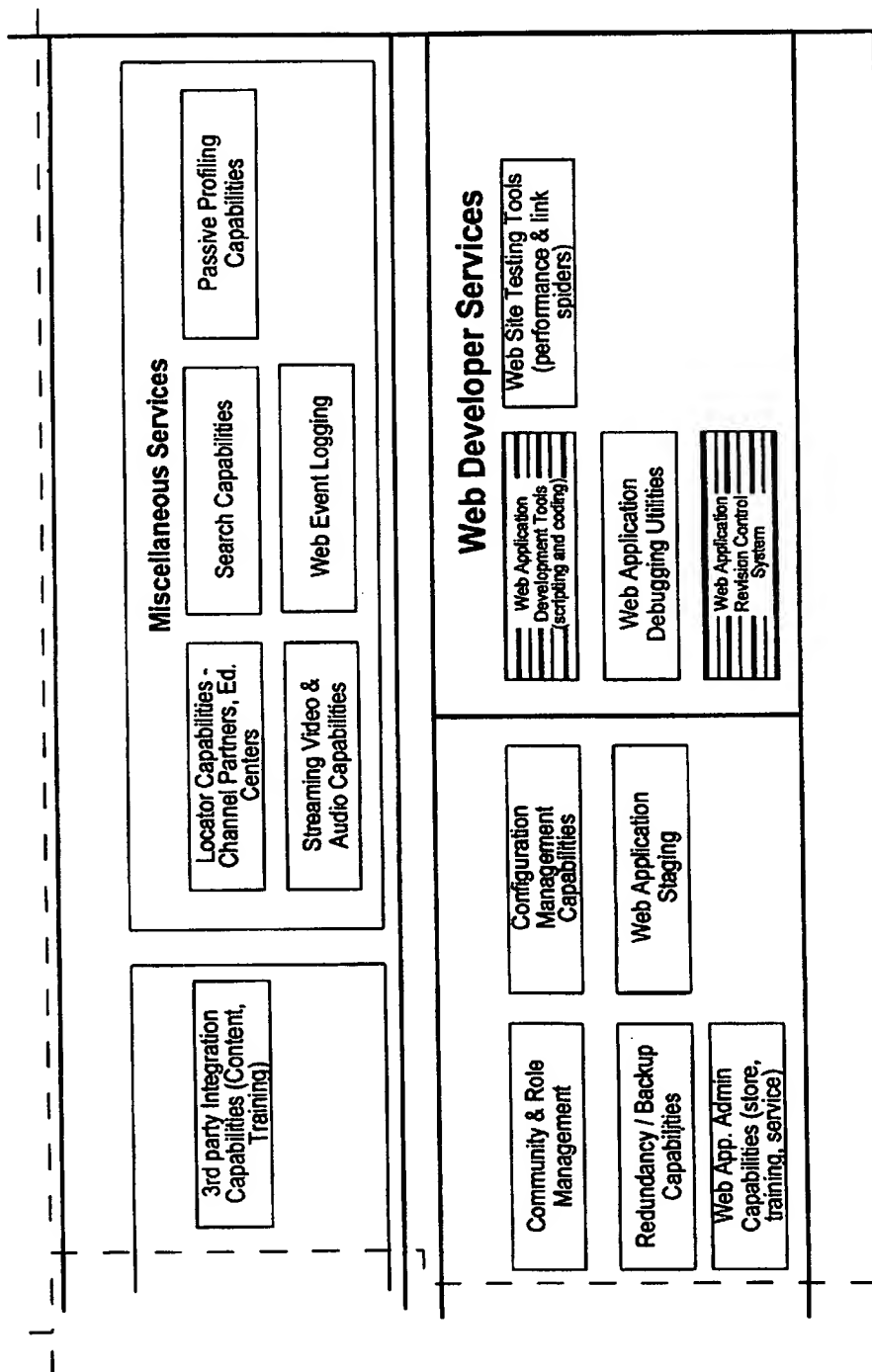
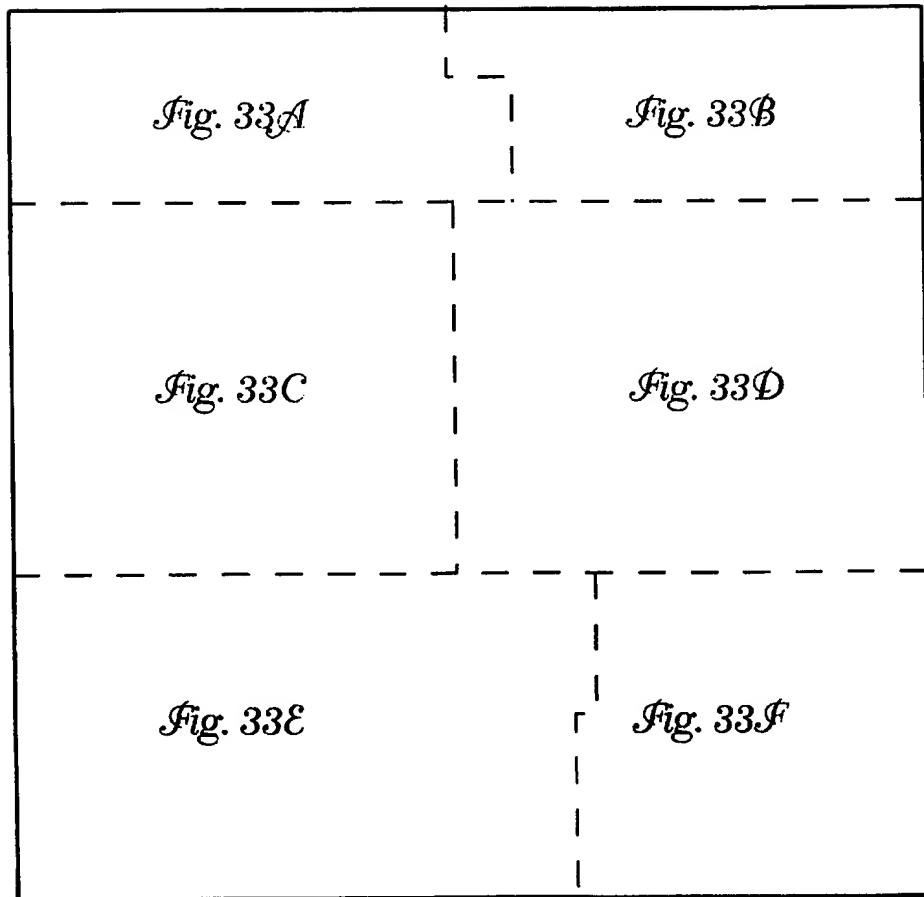


Fig. 32F





*Fig. 33*

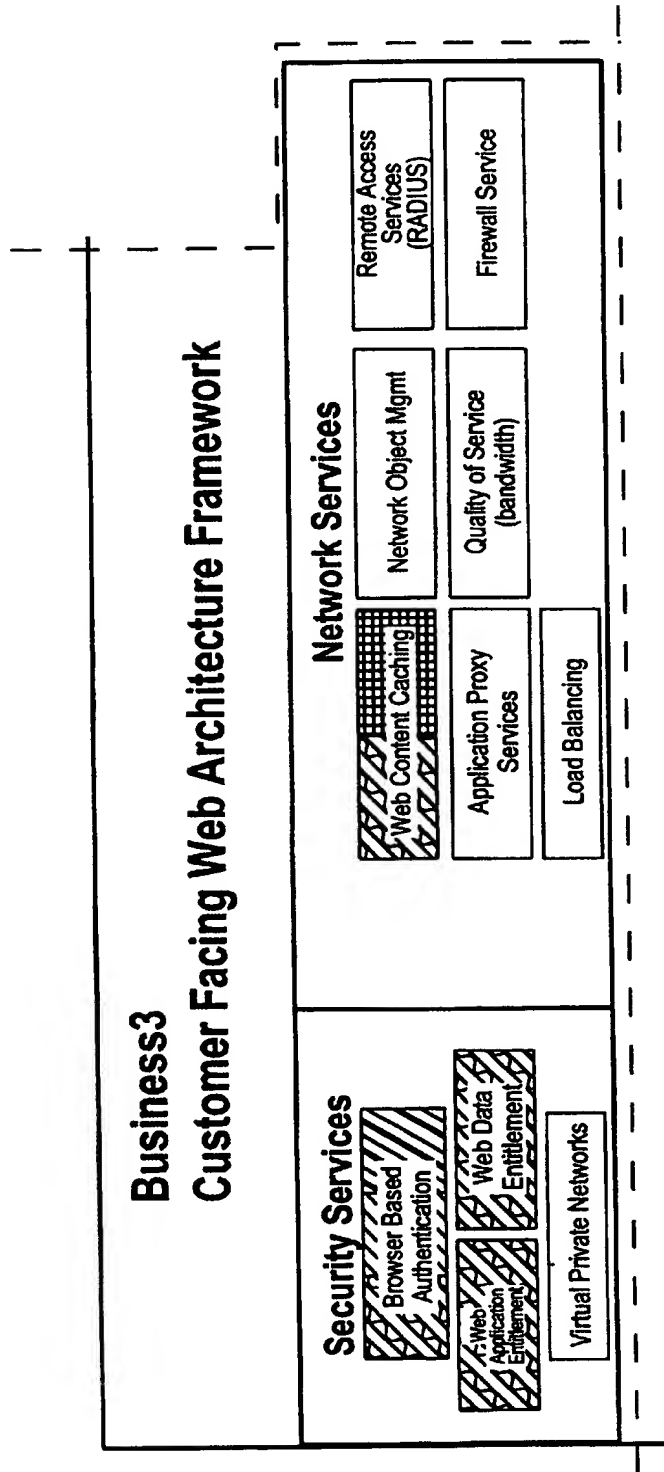
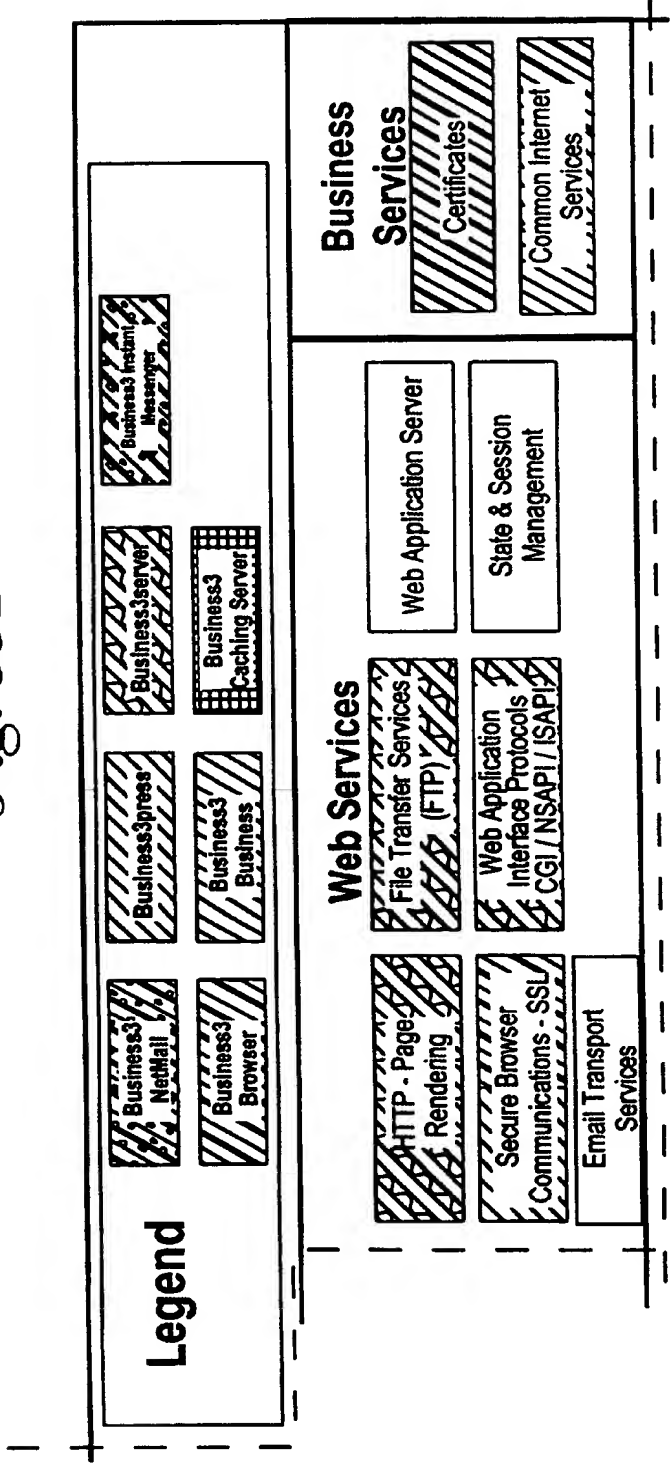
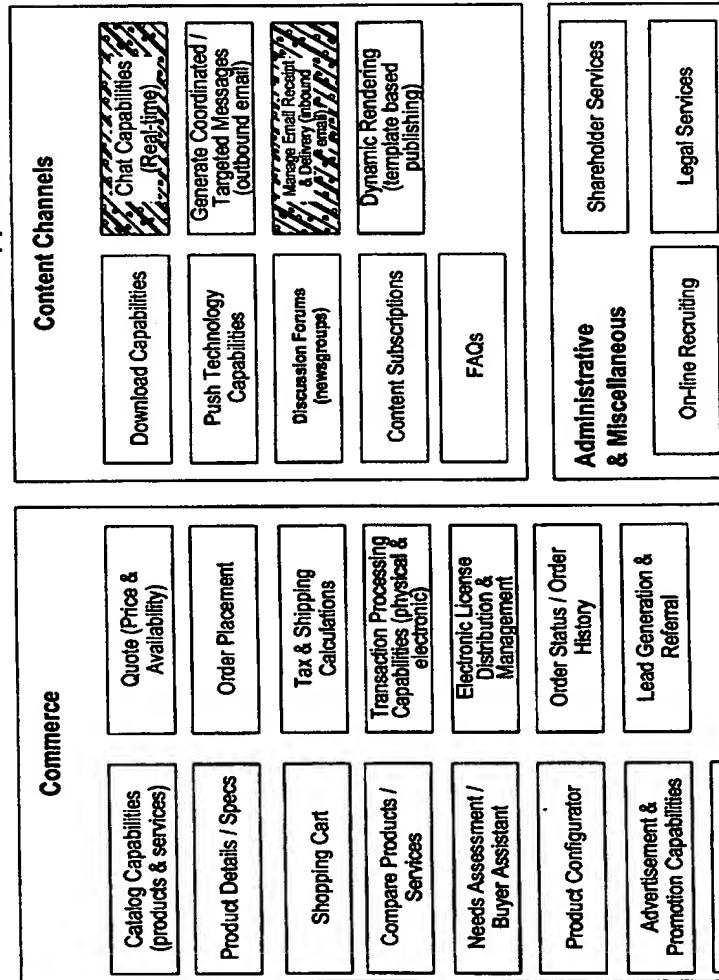


Fig. 33A

Fig. 33B



**Web Application Services**



*Fig. 33C*

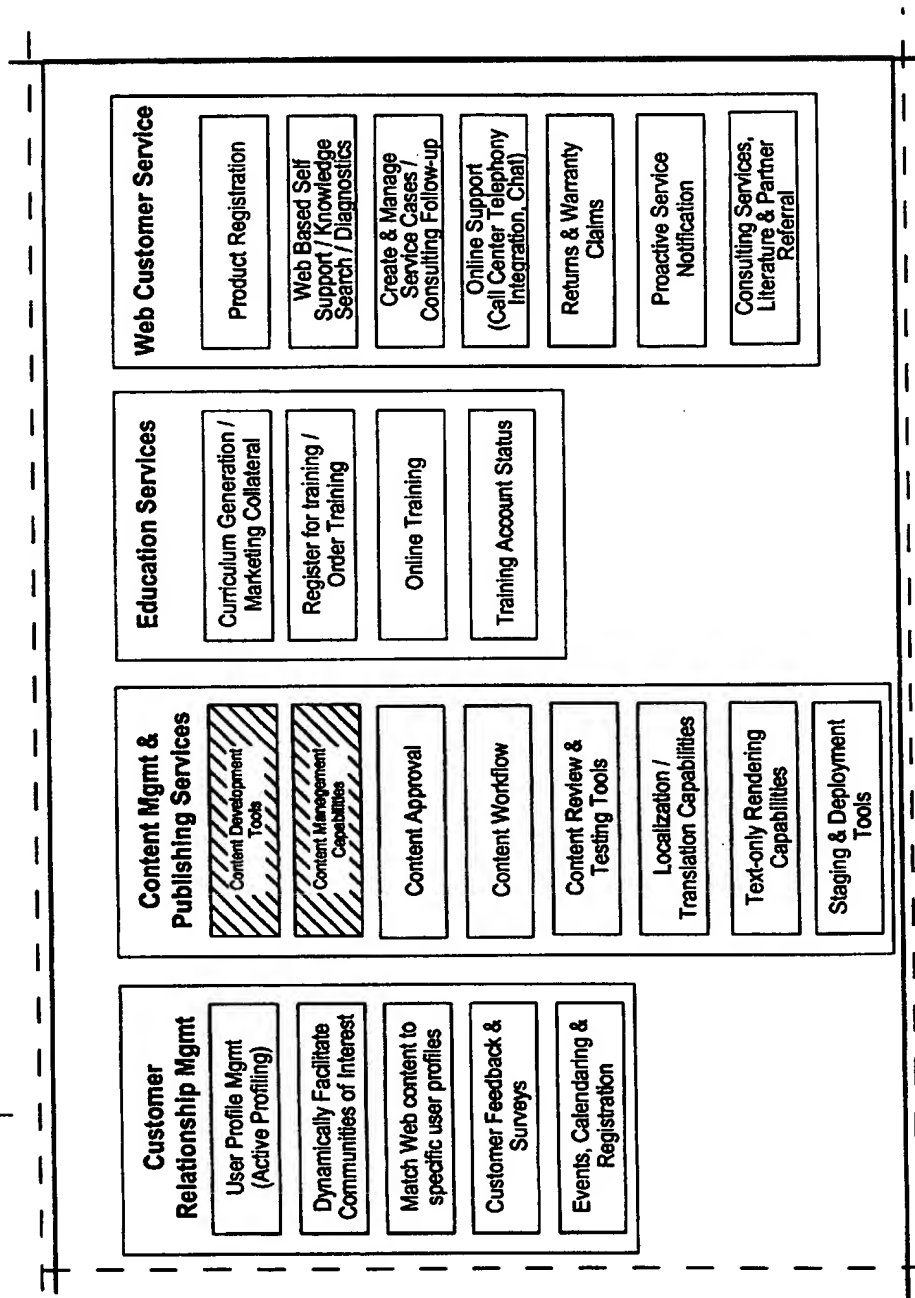


Fig. 33D

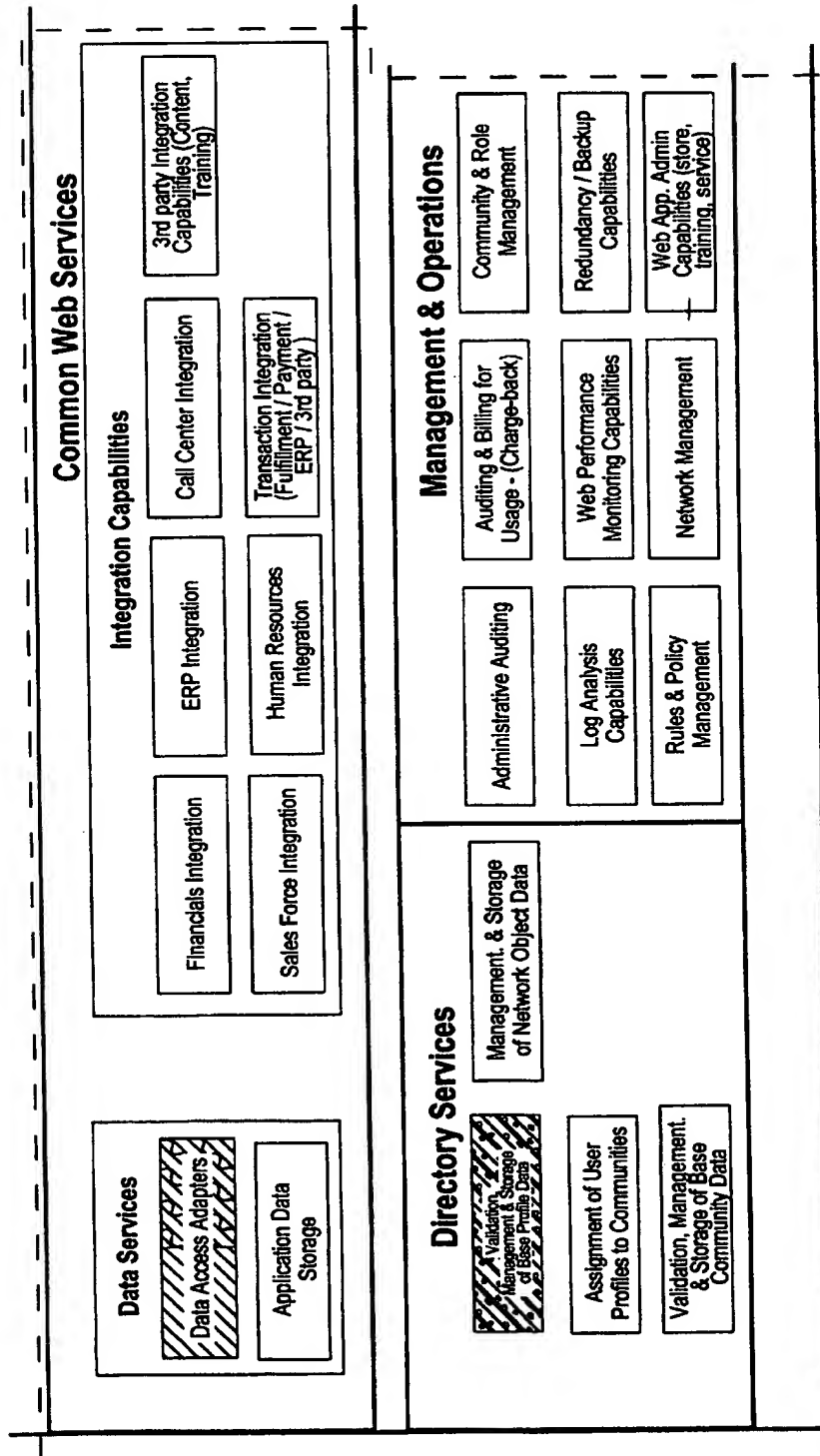
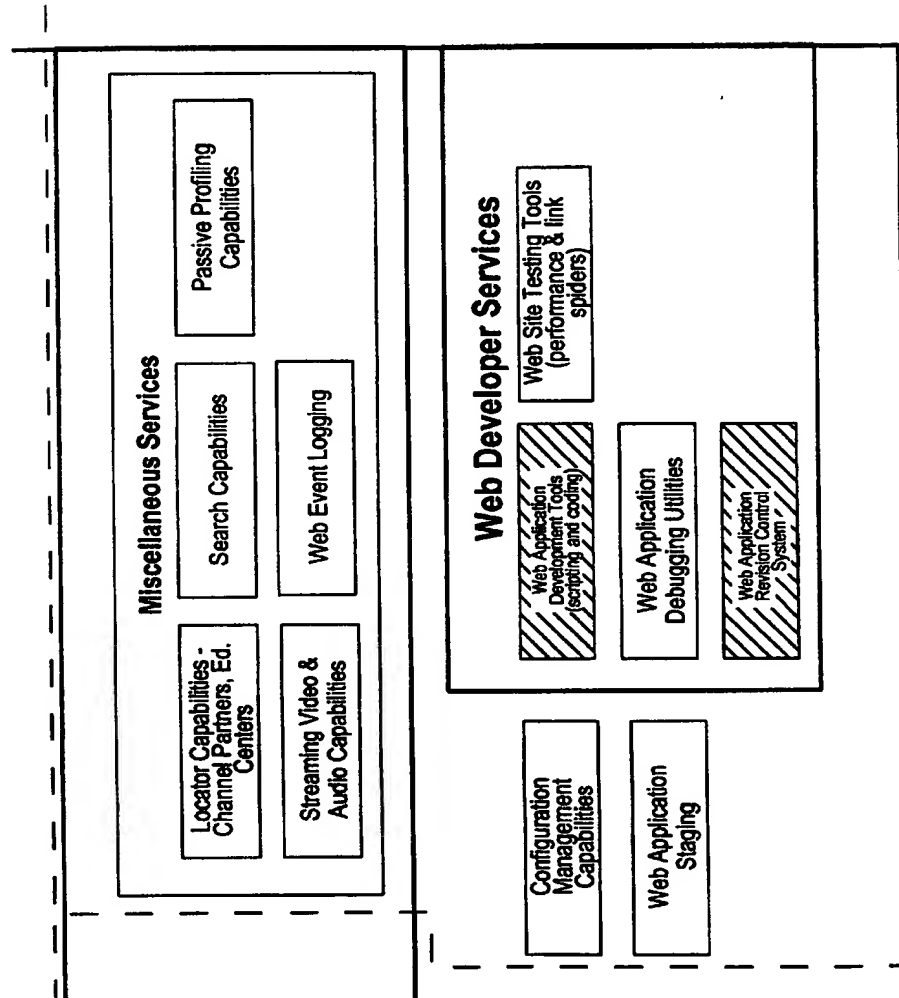
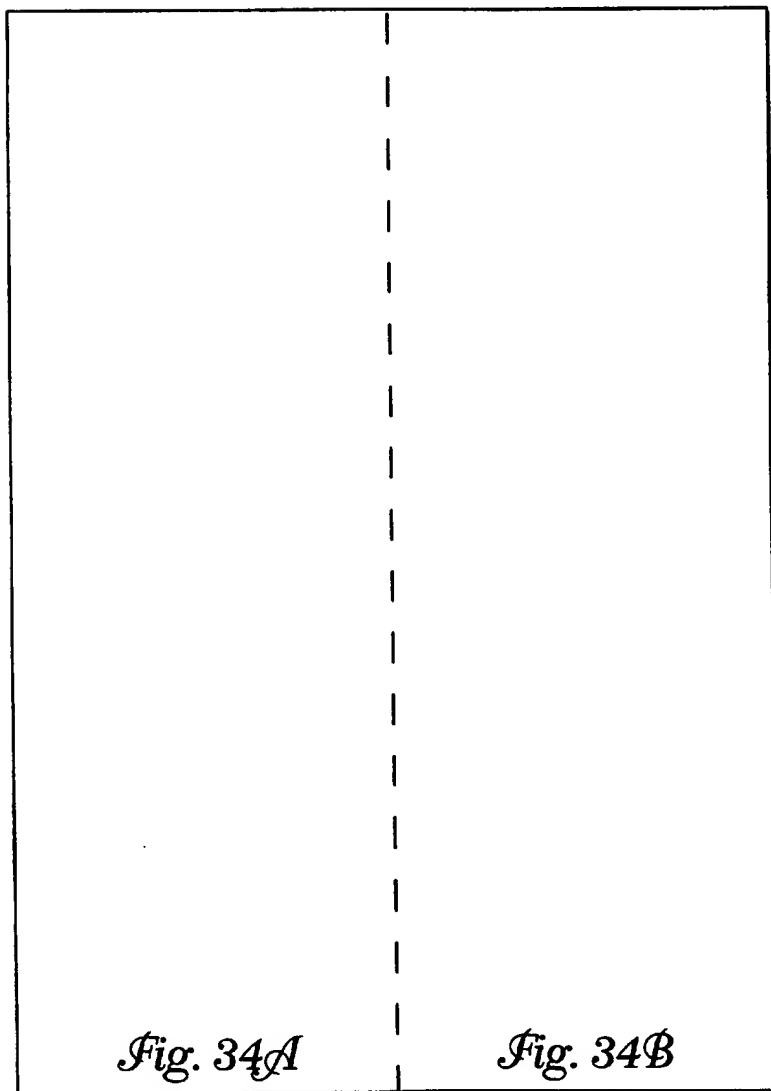


Fig. 33E



*Fig. 33F*



*Fig. 34*



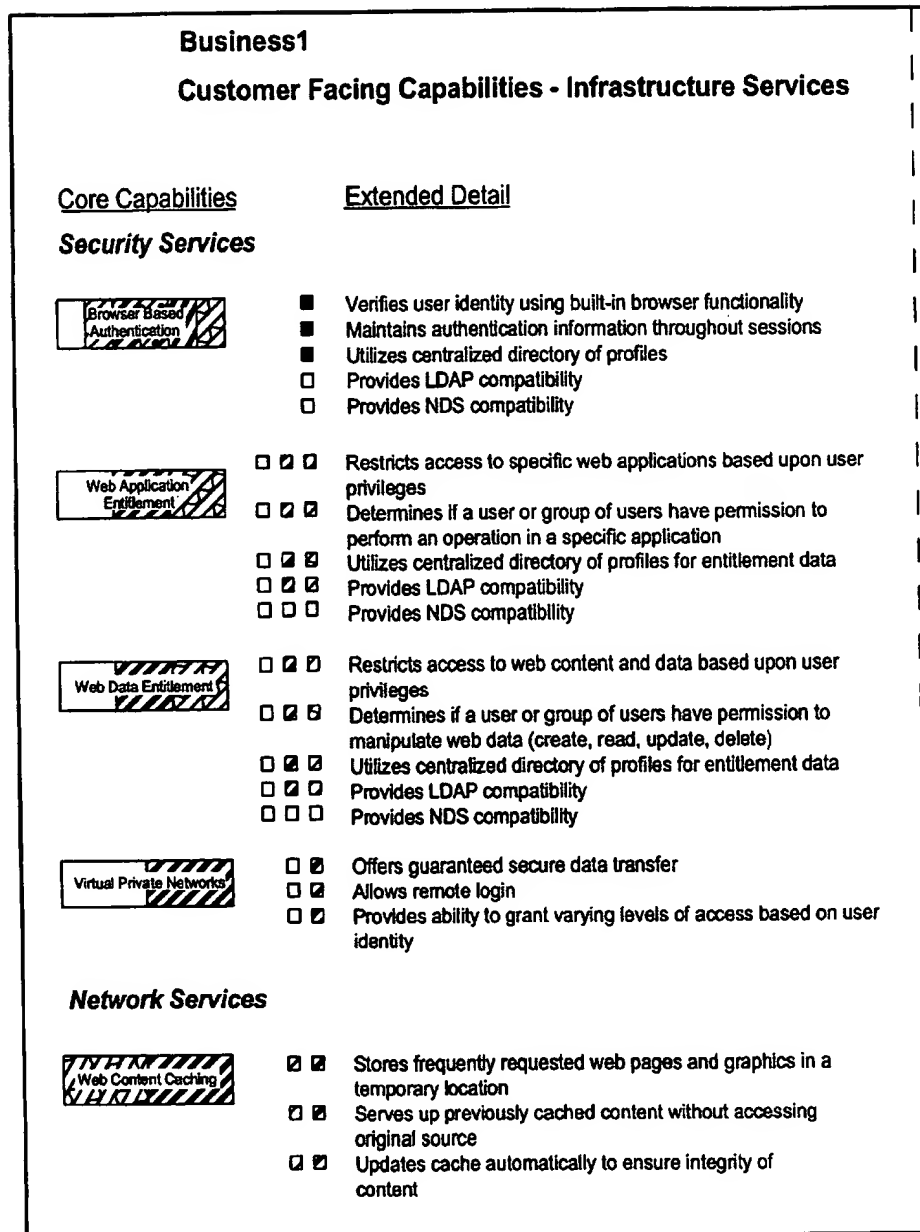


Fig. 34A

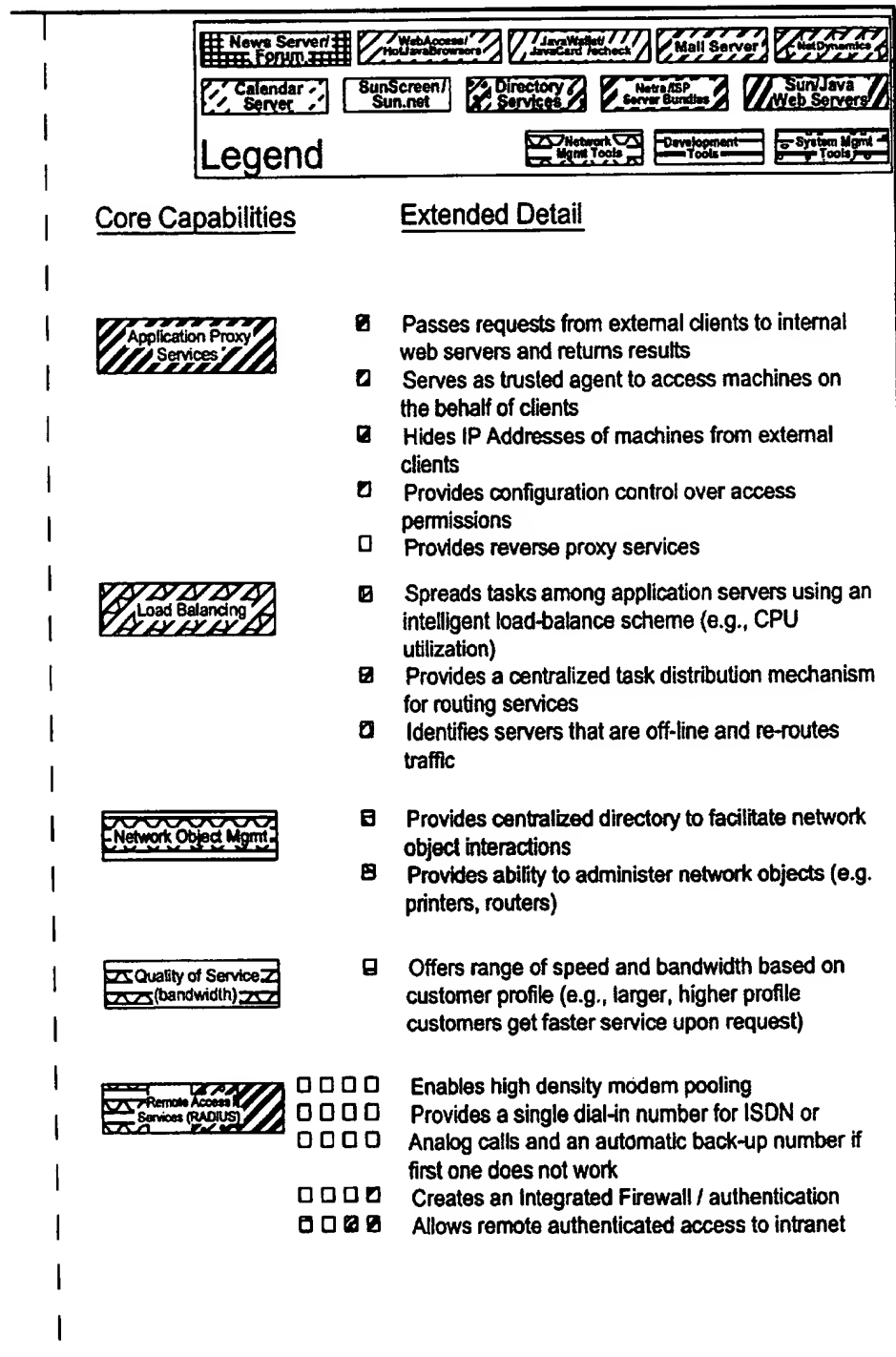
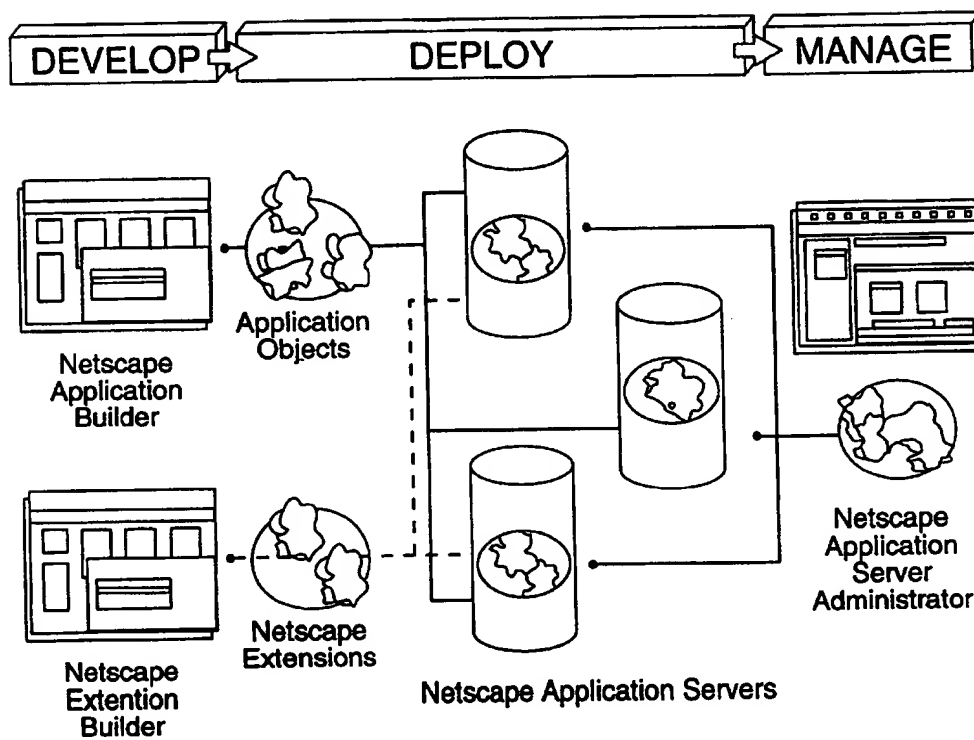


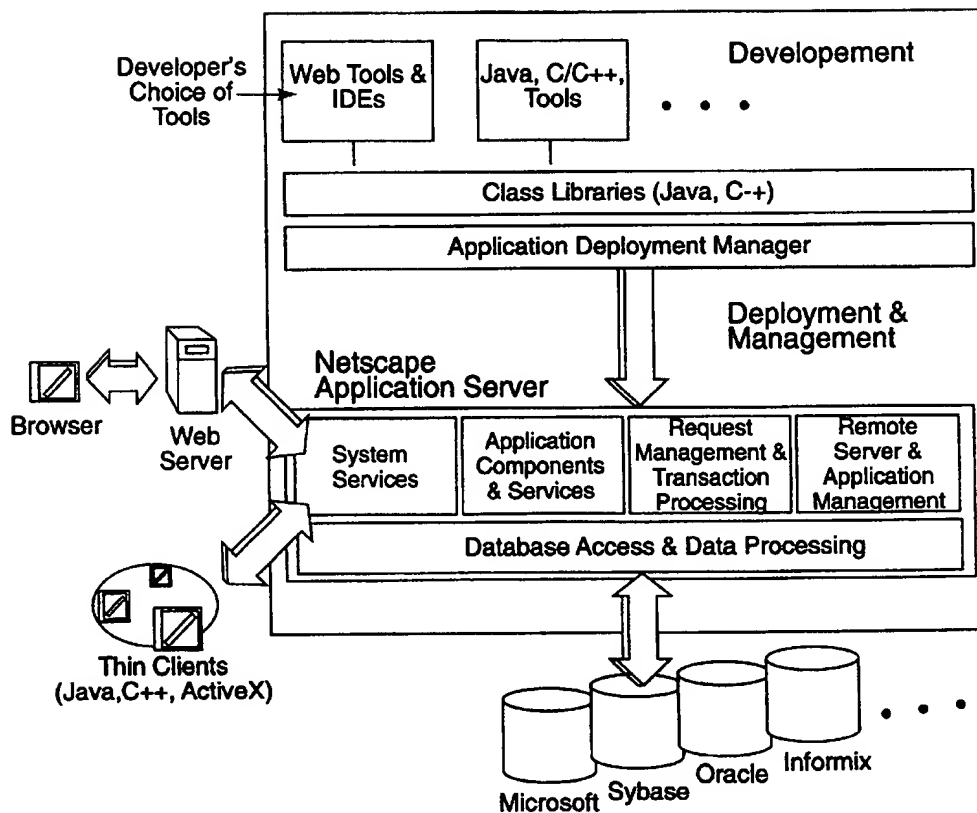
Fig. 34B

Client2 Application Server



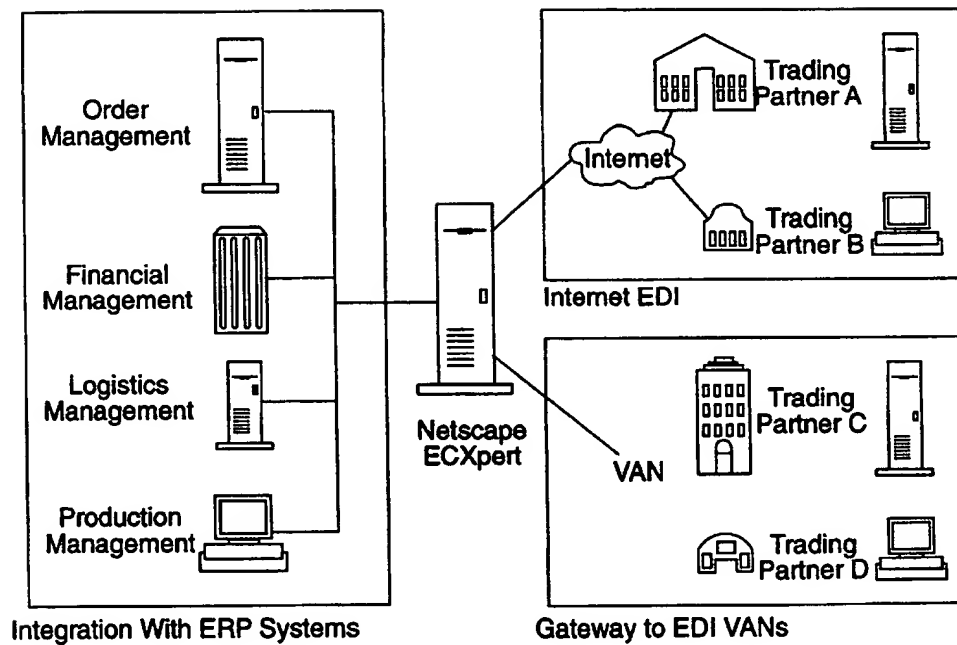
Client2 Application Server

*Fig. 35*



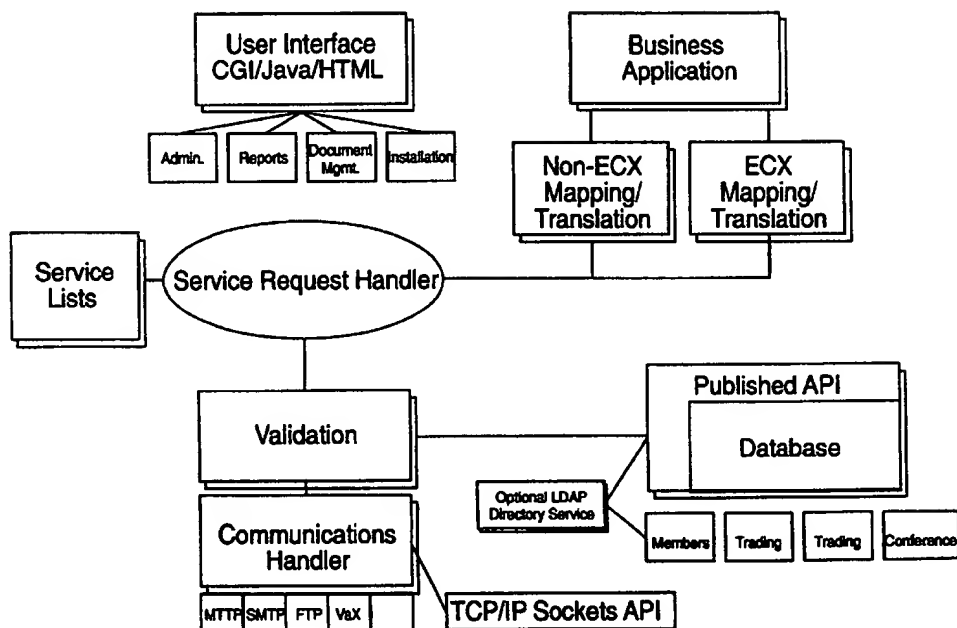
*Fig. 36*

Client2 ECXpert



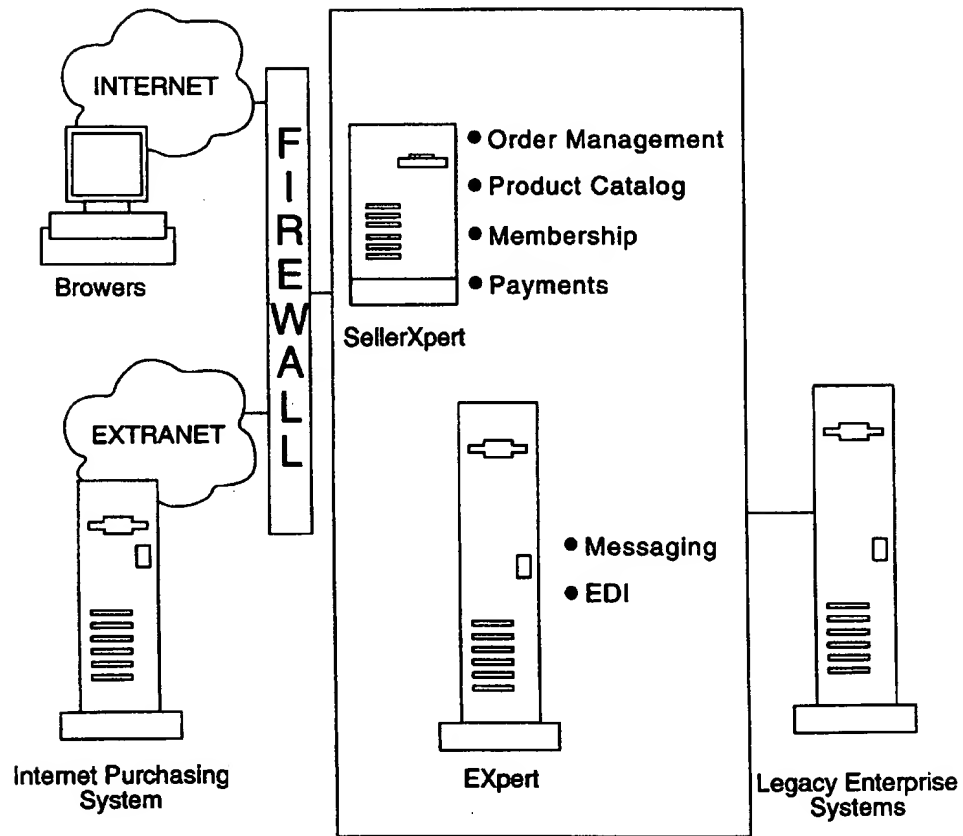
*Fig. 37*

Client2 ECXpert

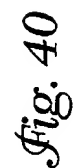


*Fig. 38*

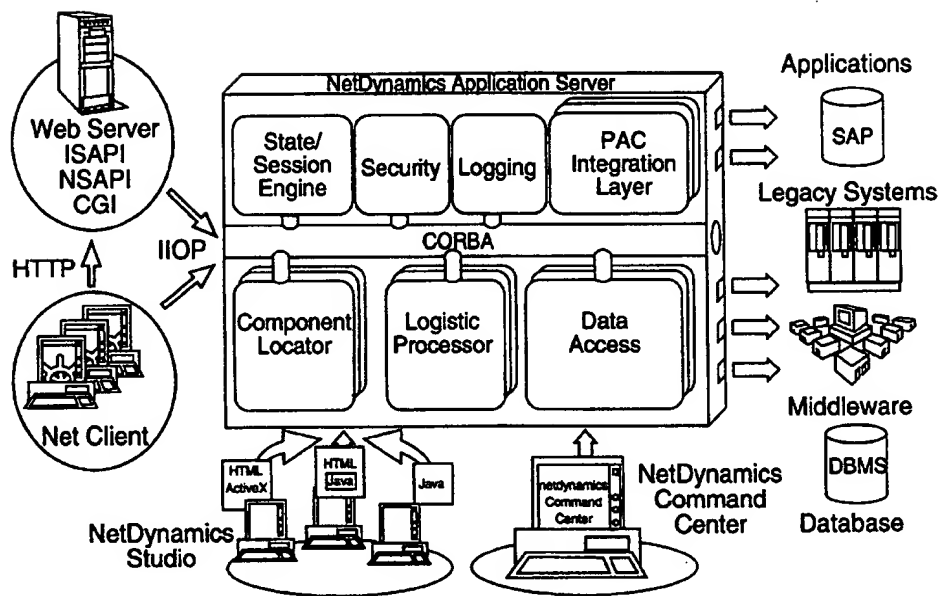
Client2 SellerXpert



*Fig. 39*







- ① Any Web browser requests a dynamic-page
- ② The Web server notifies ColdFusion
- ③ ColdFusion processes the dynamic-page based on the CFML tags
- ④ ColdFusion generates an HTML page
- ⑤ The Web server sends the HTML page to the browser

*Fig. 41*

Client1 Internet Mail Server

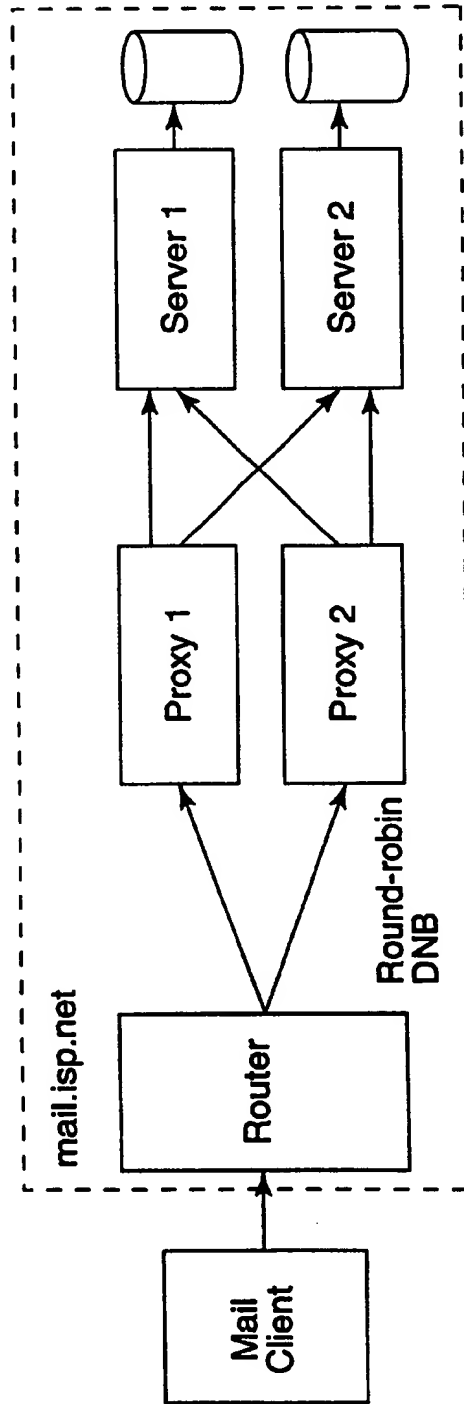
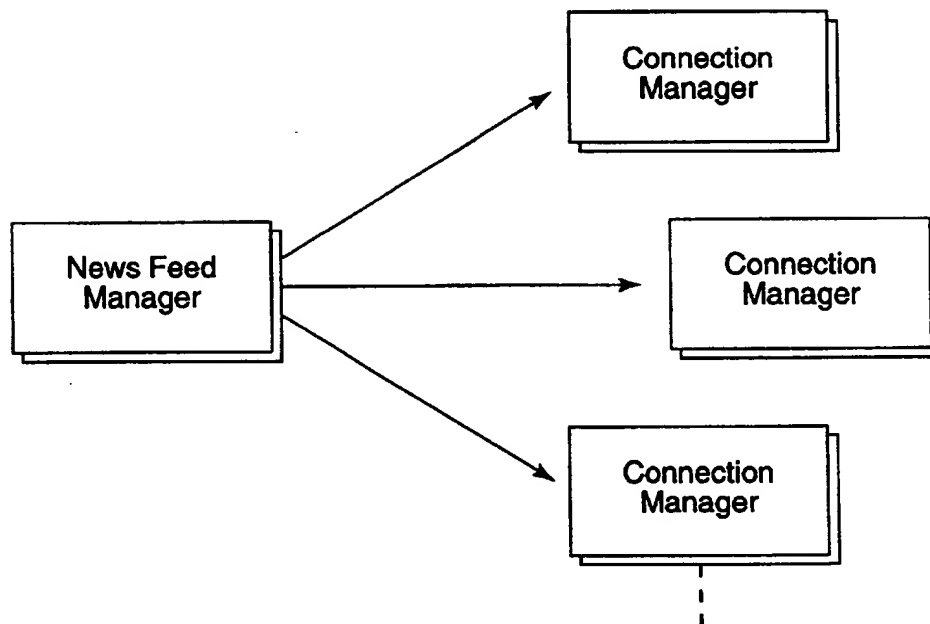


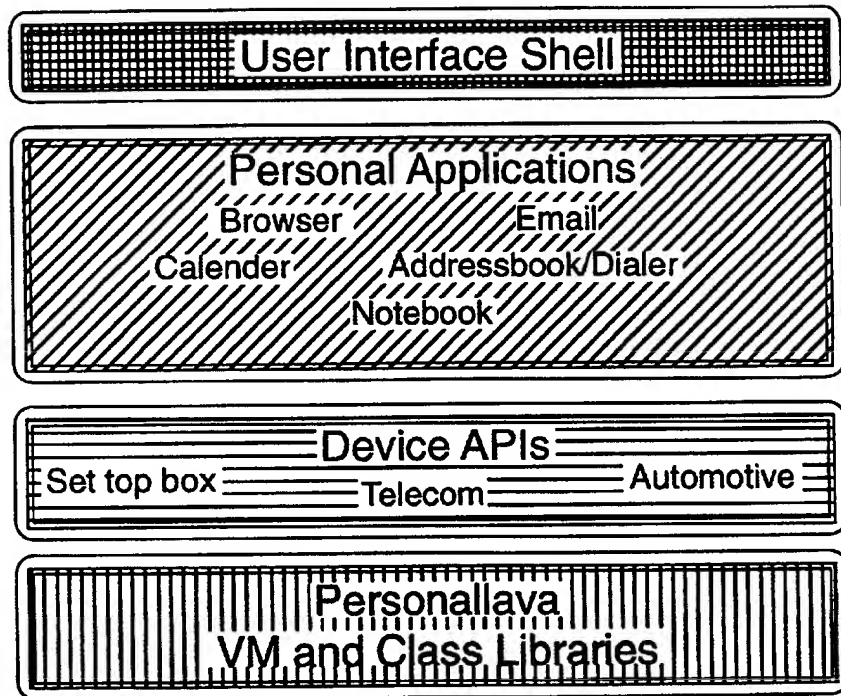
Fig. 42

Client1 Internet News Server



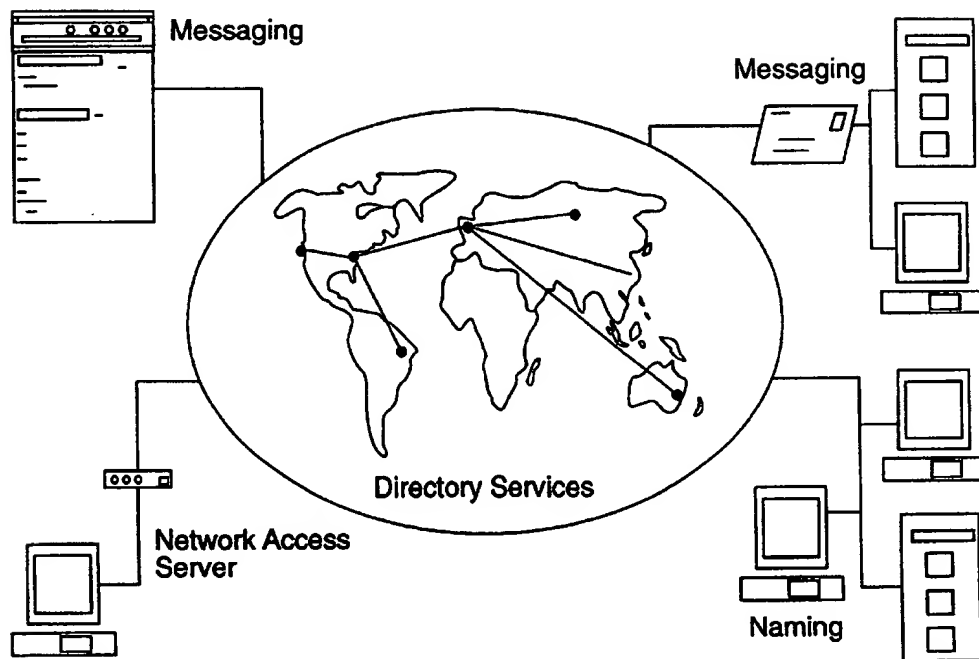
*Fig. 43*

Client1 Personal WebAccess Browser



*Fig. 44*

Client1 Directory Services



*Fig. 45*

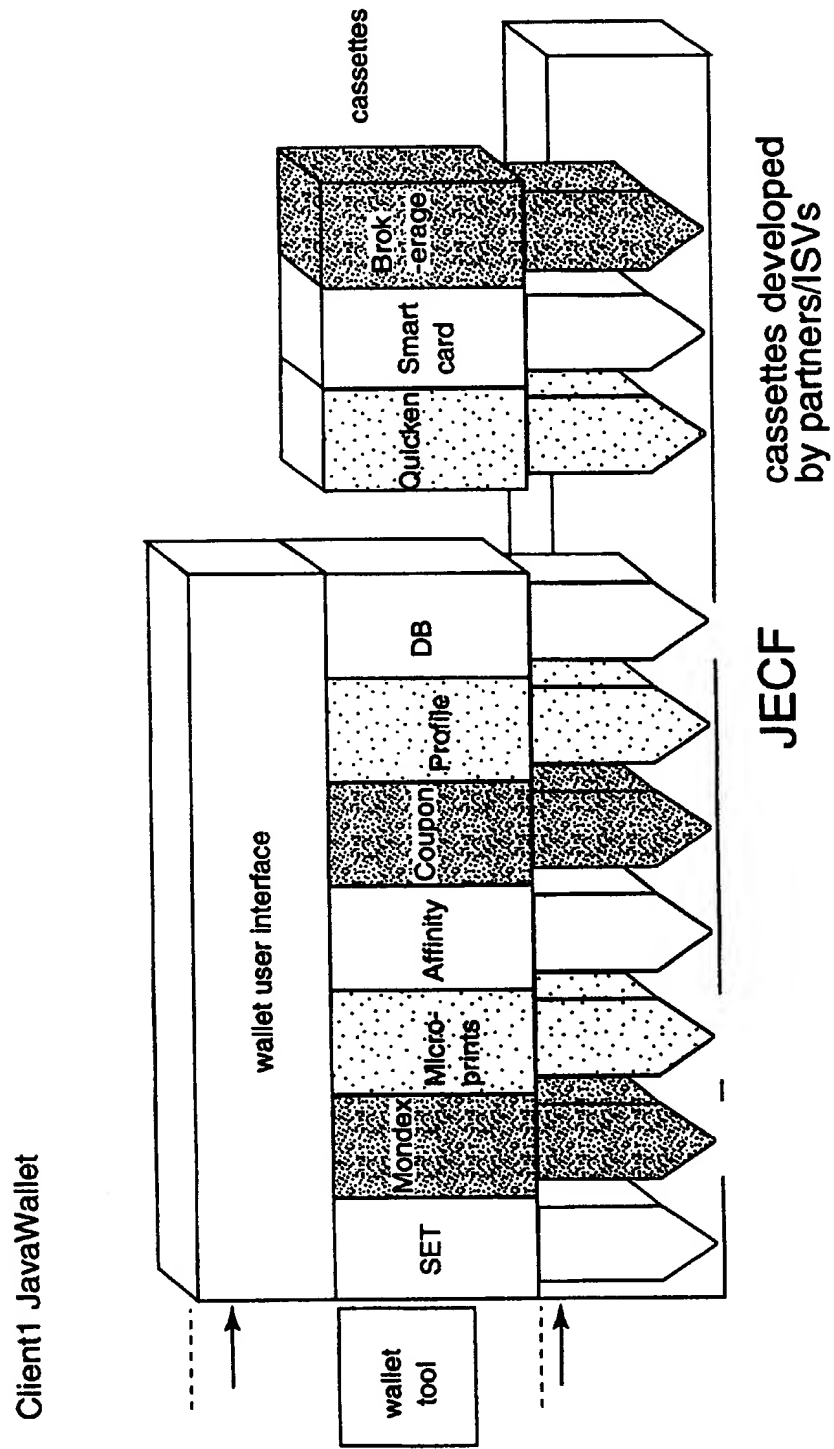
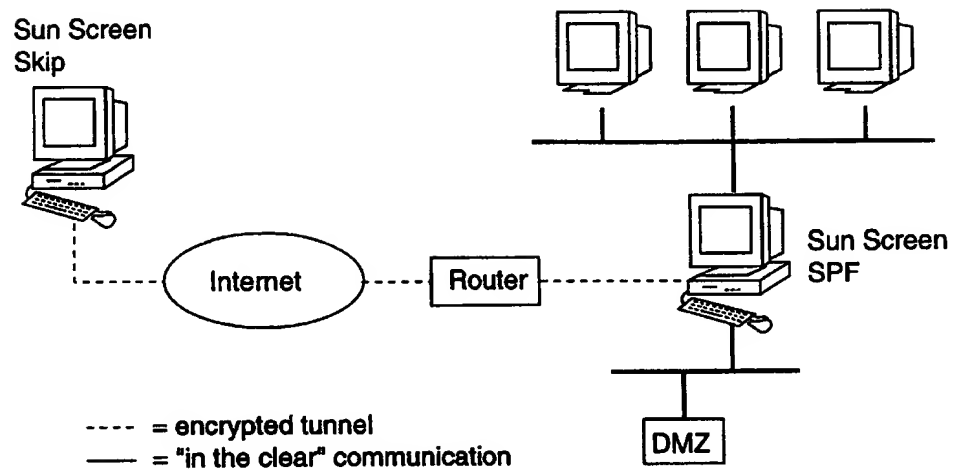


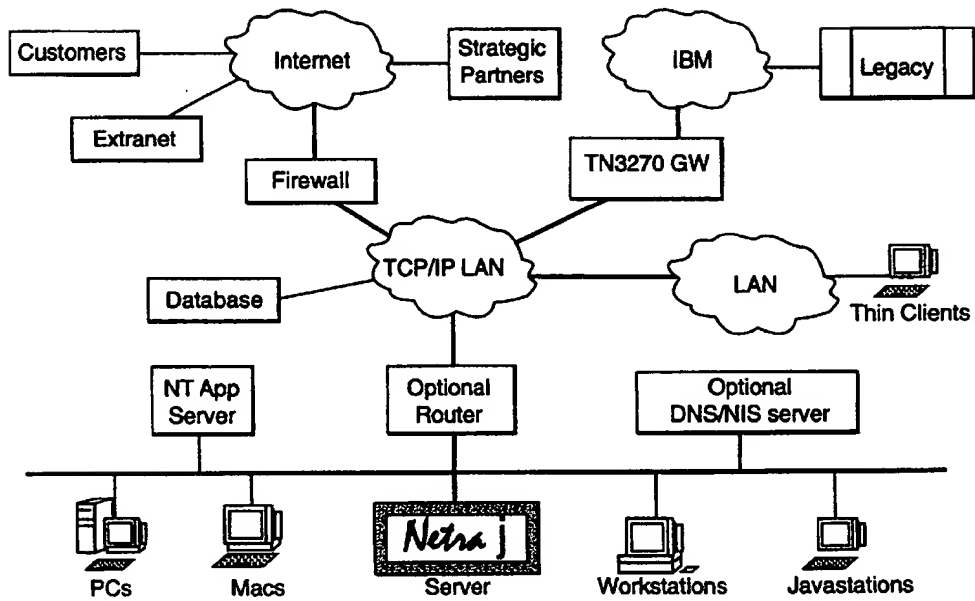
Fig. 46

Client1Screen Product Suite



*Fig. 47*

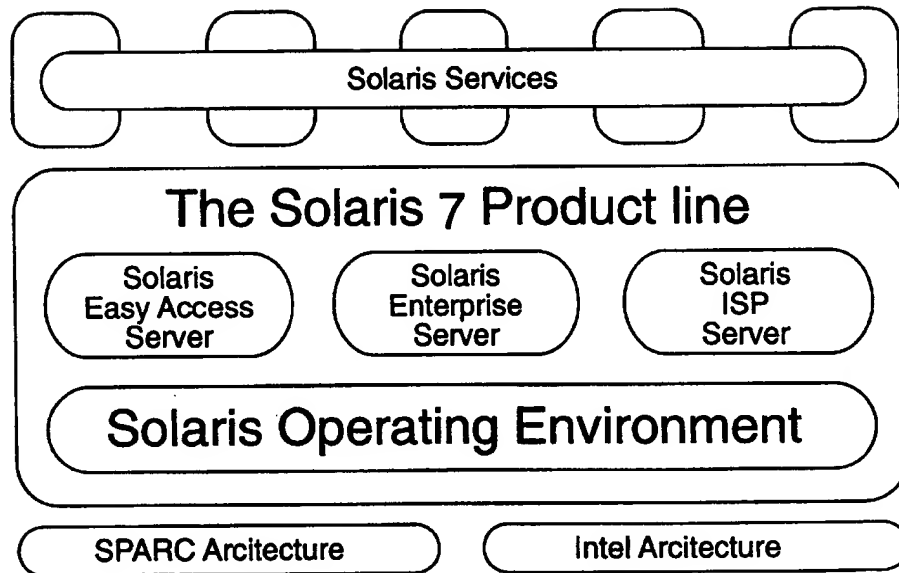
Netra Internet Server Bundle



*Fig. 48*

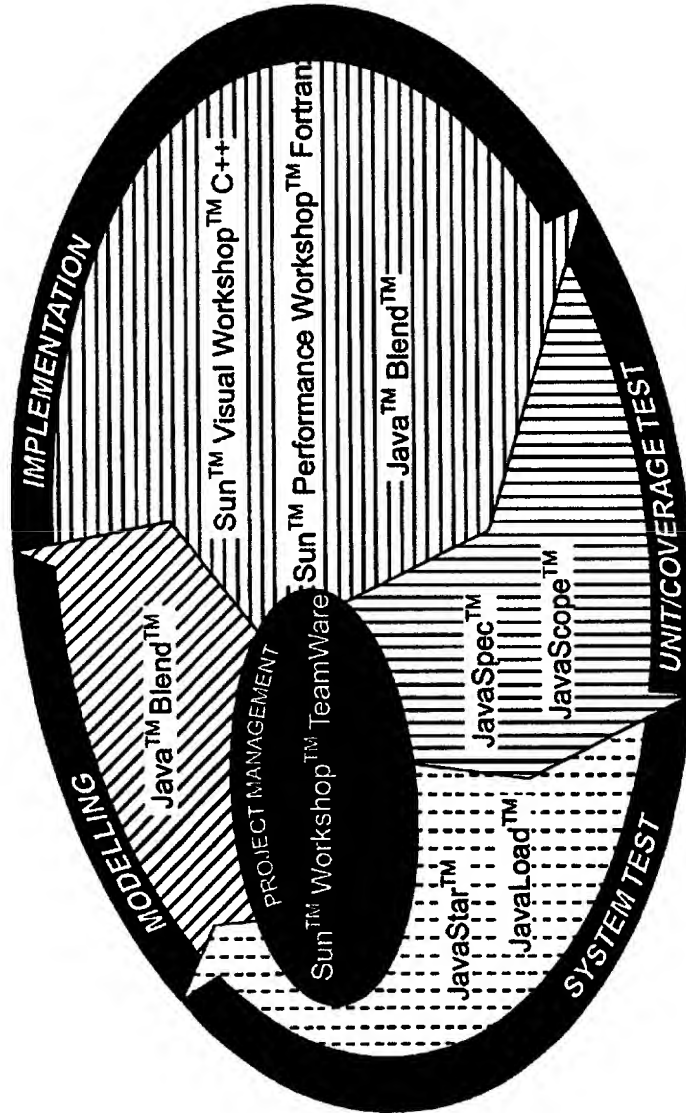


**Solaris ISP Server Bundle**

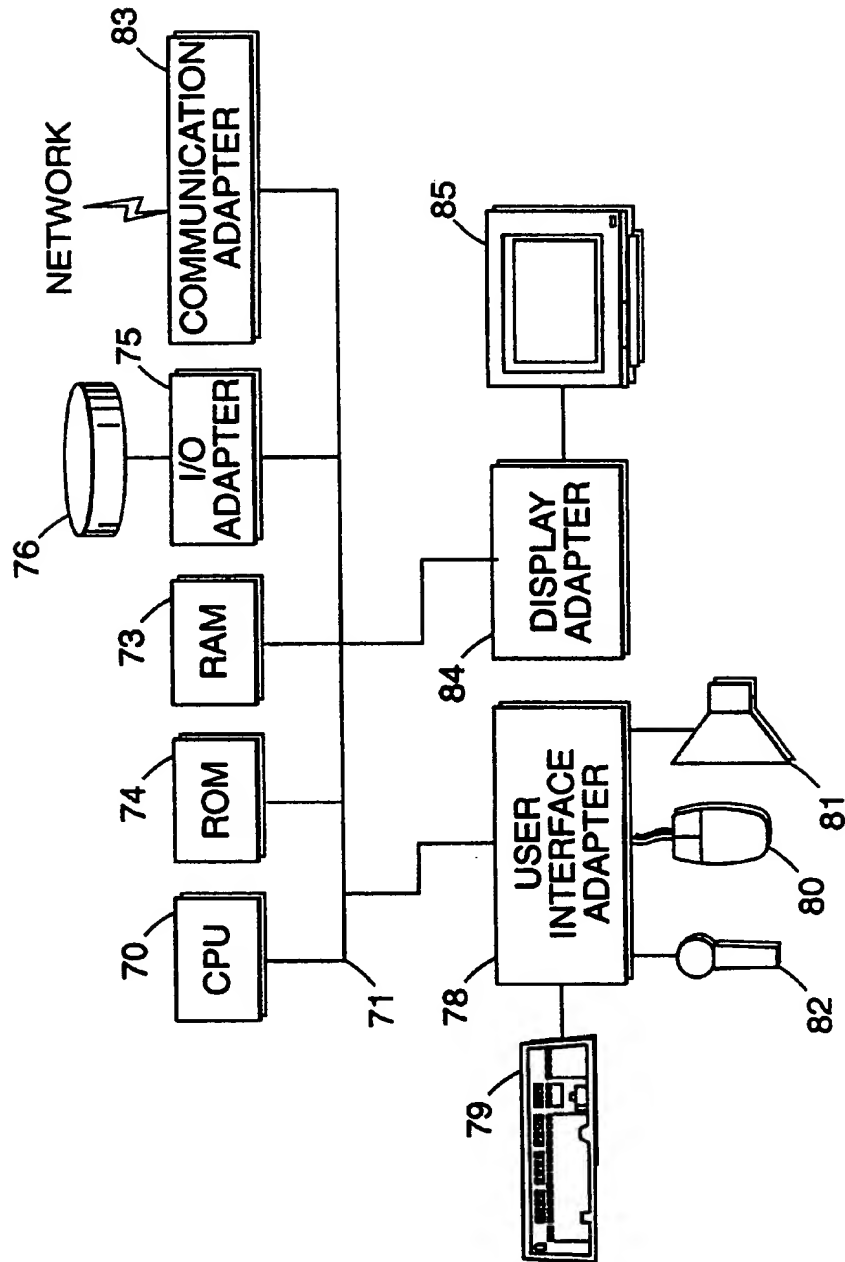


*Fig. 49*

Development & Testing Tools



*Fig. 50*



*Fig. 51*

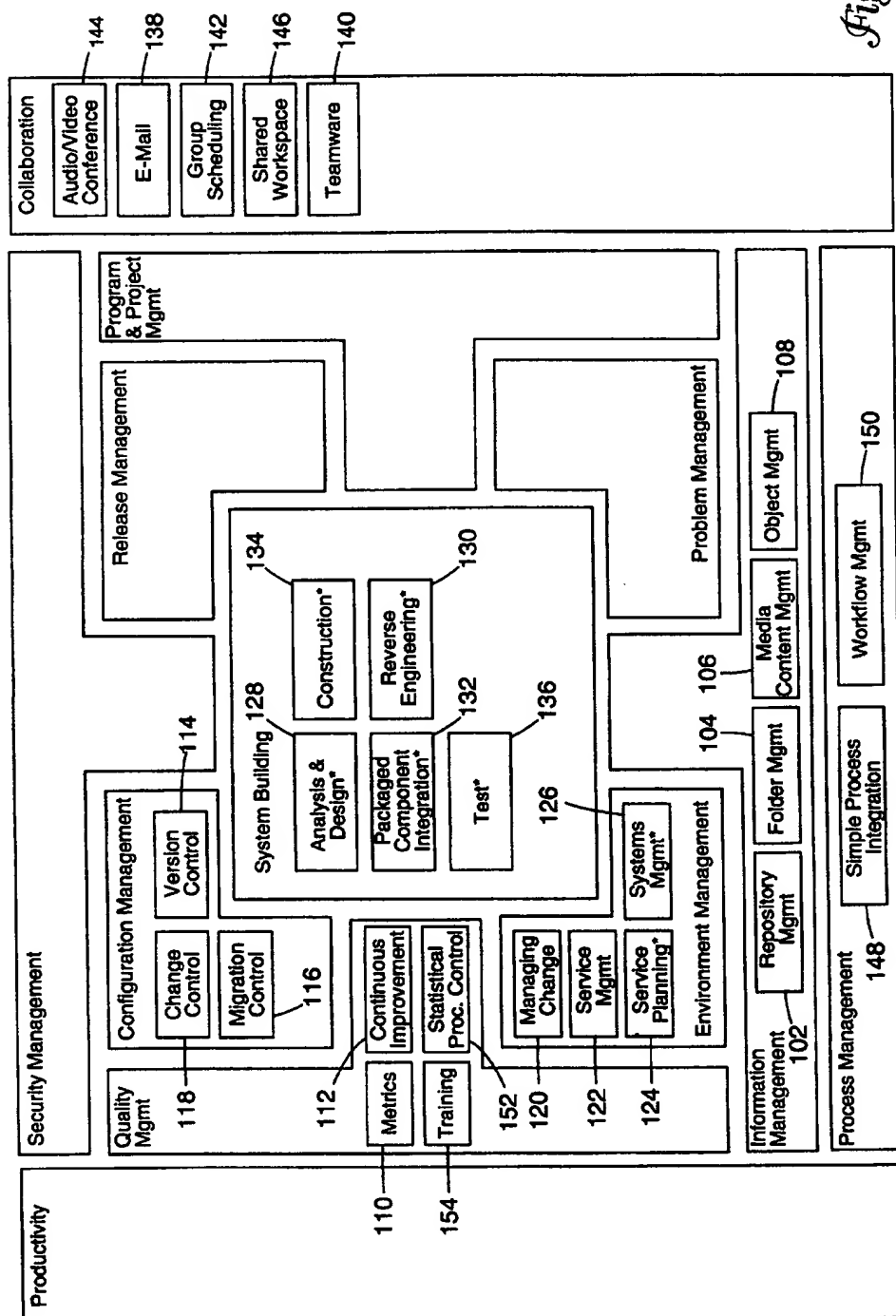
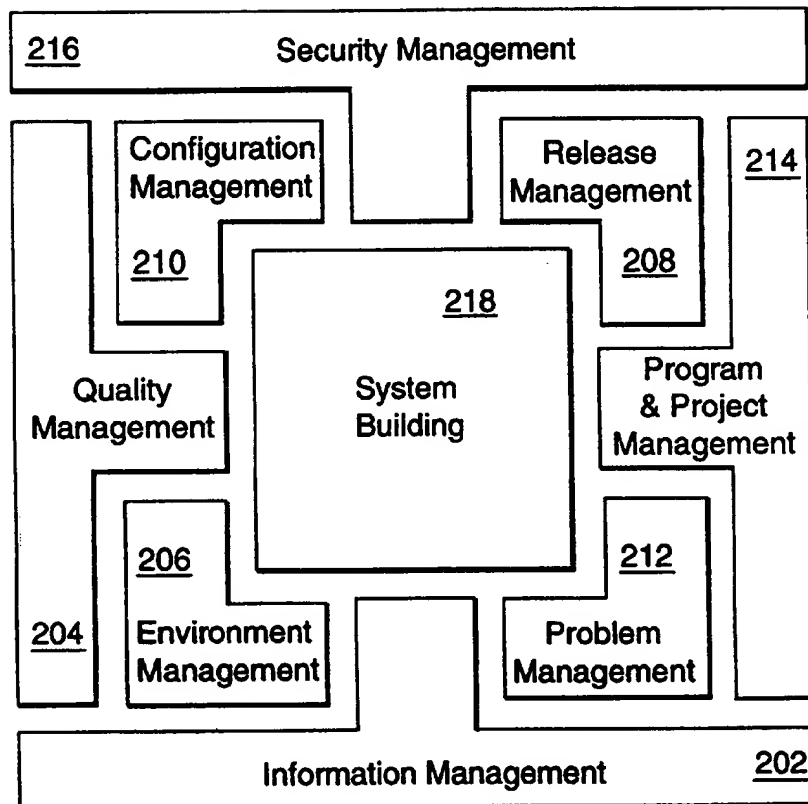
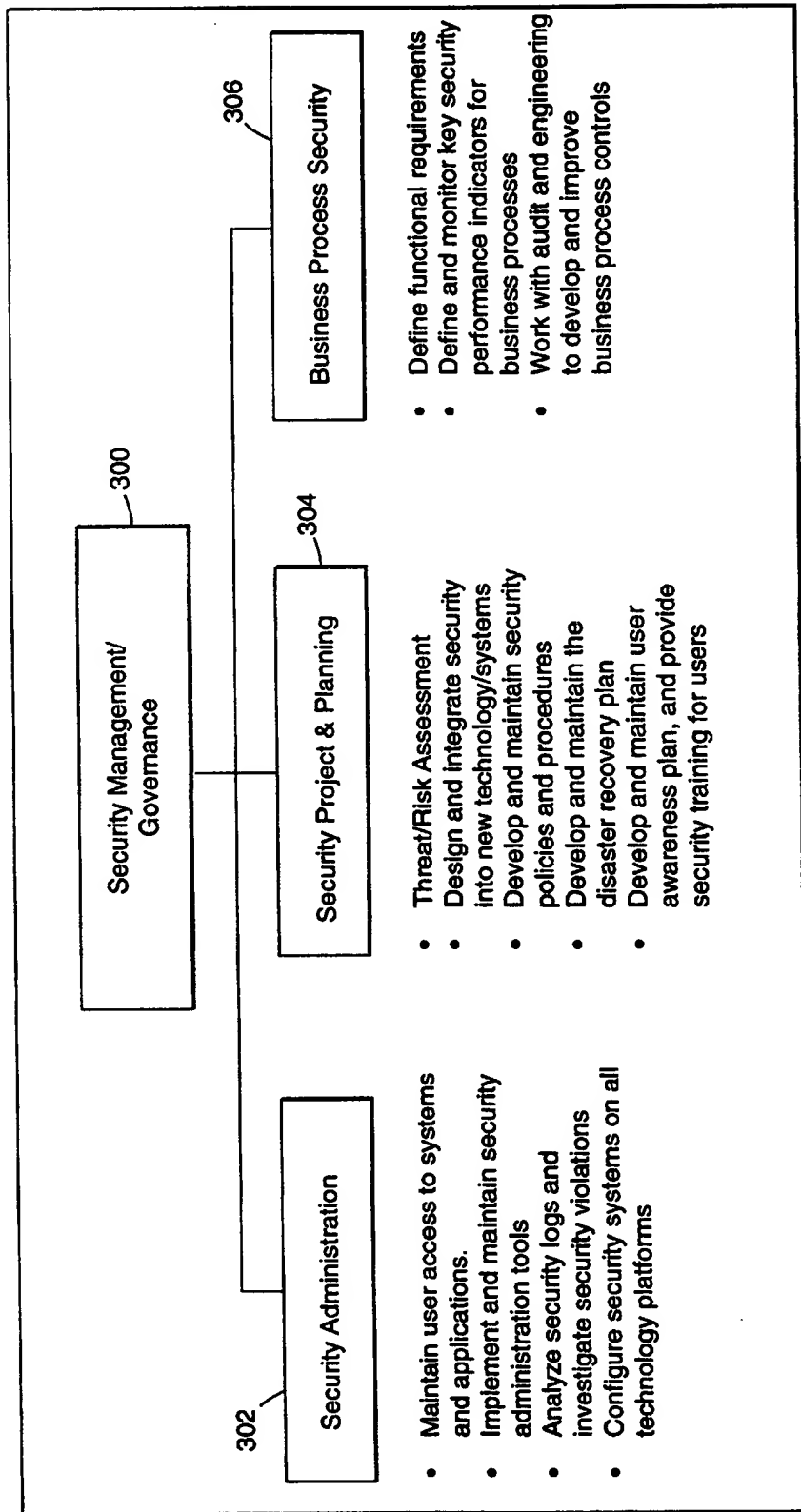


Fig. 52



*Fig. 53*



*Fig. 54*

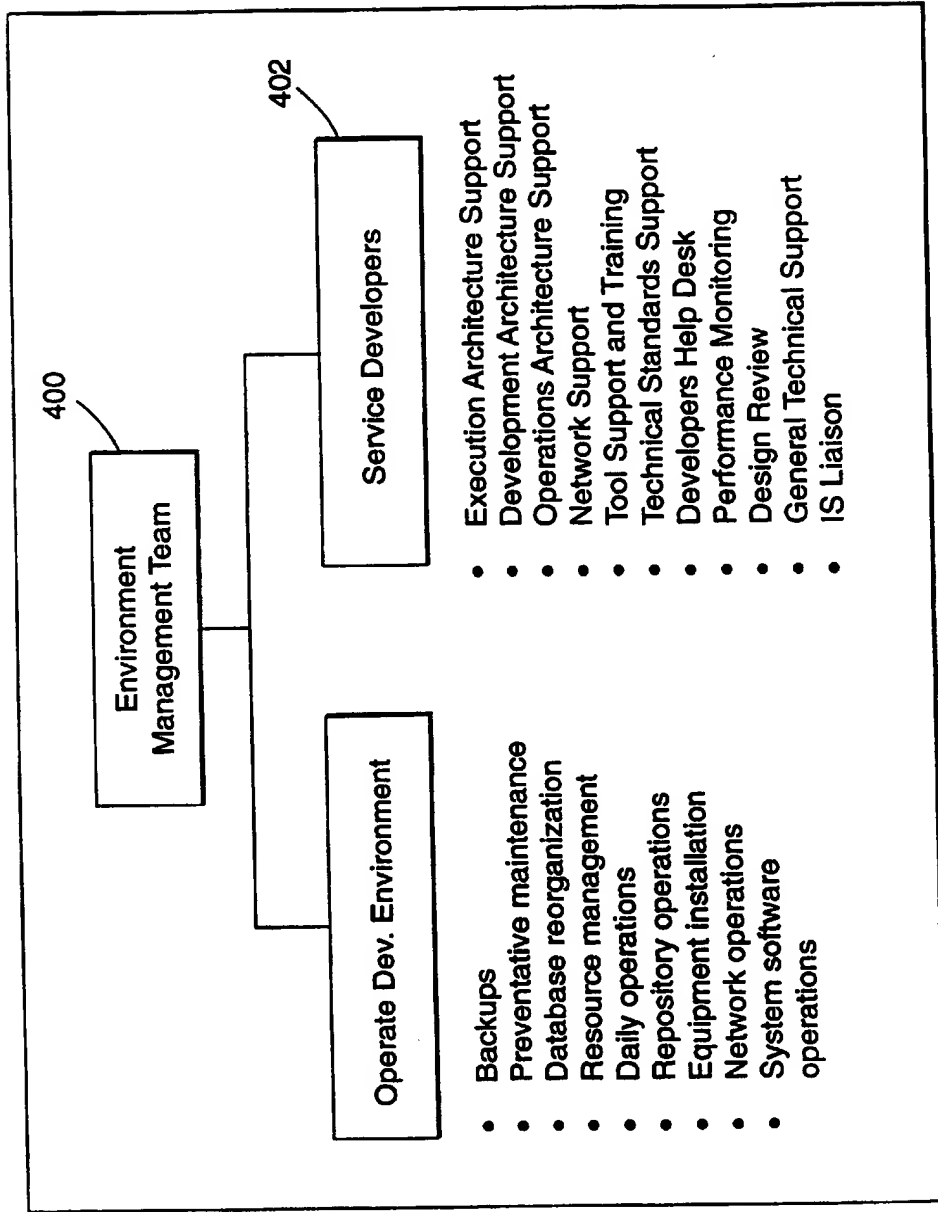
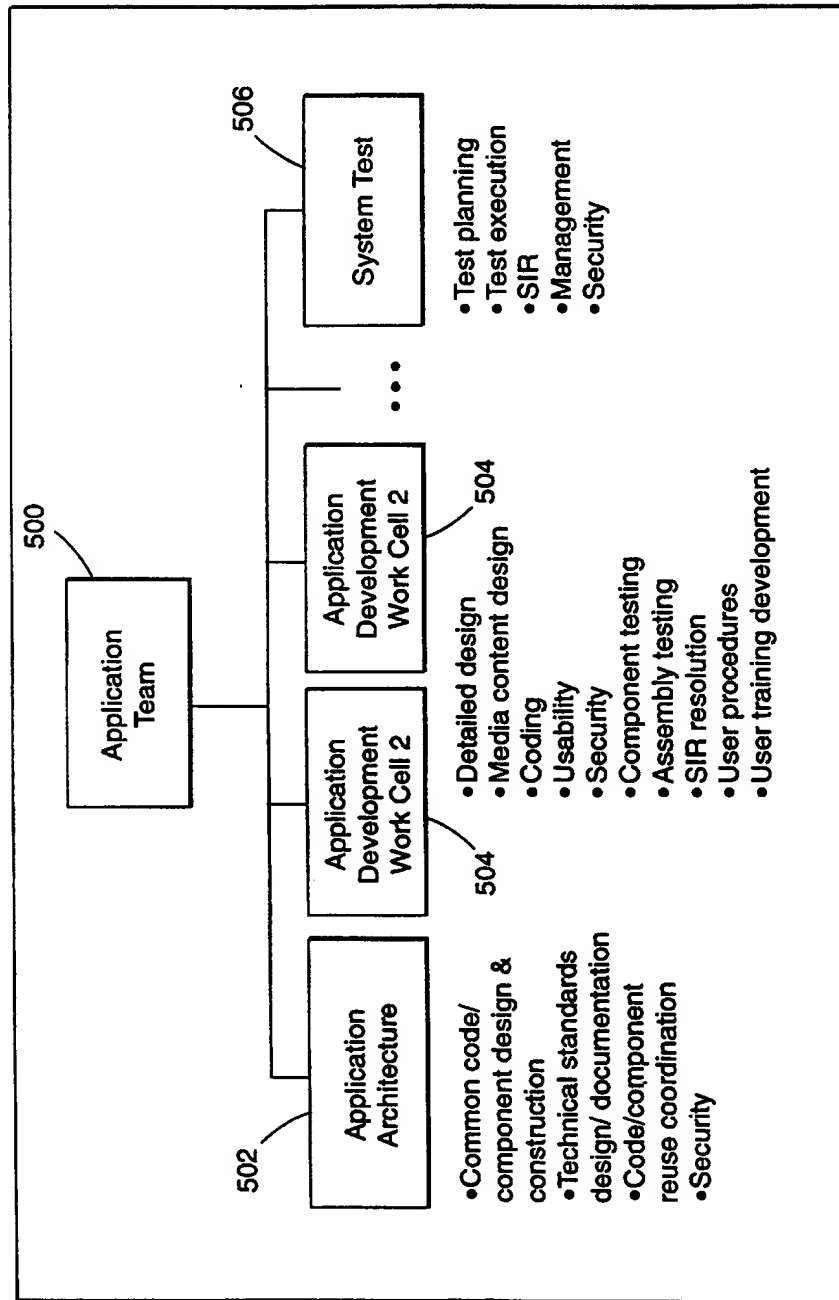
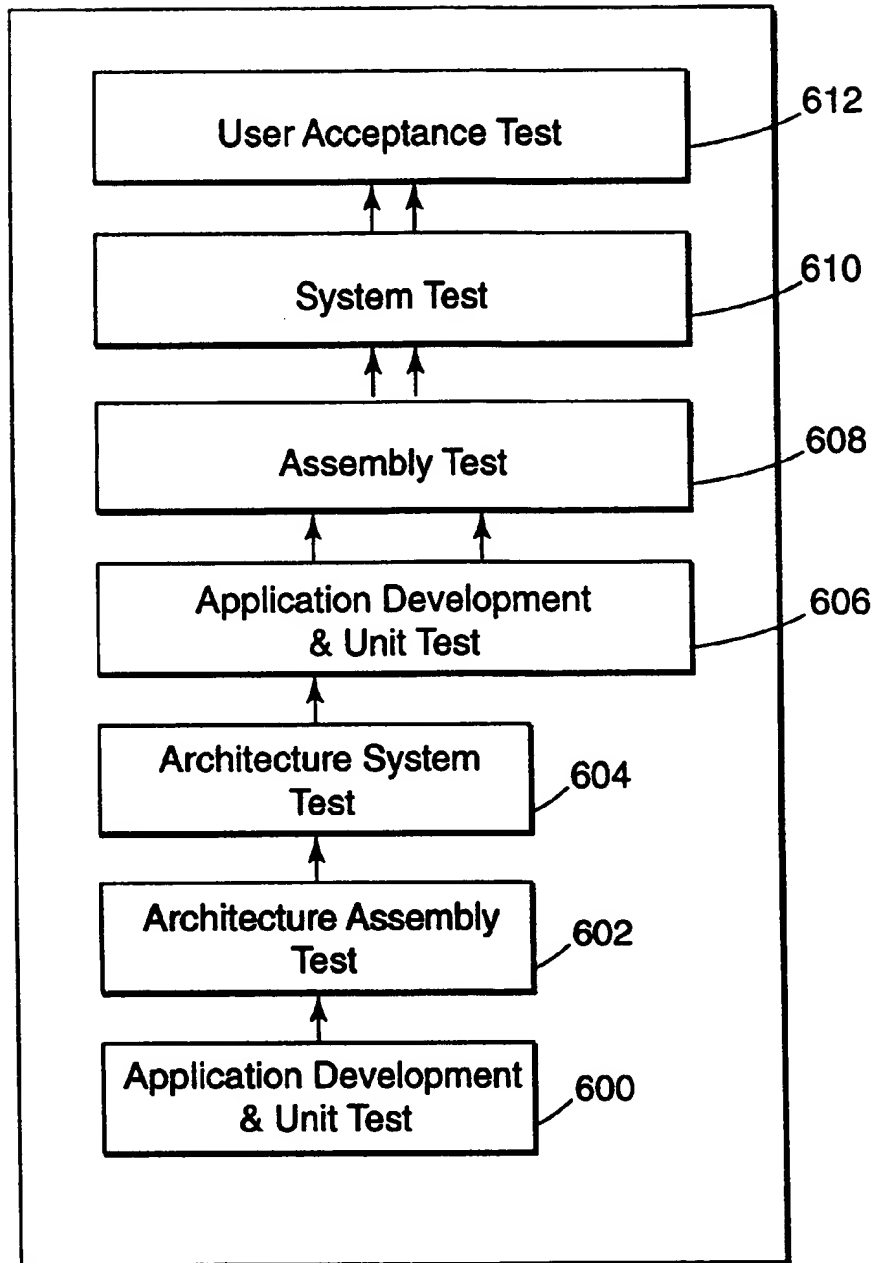


Fig. 55

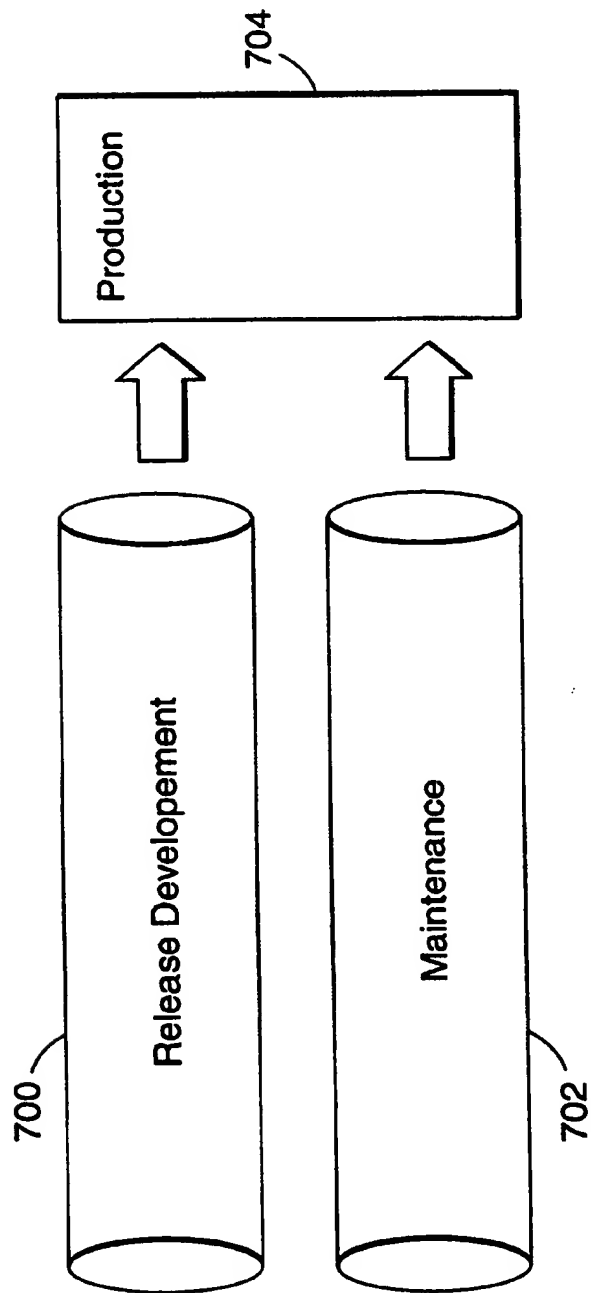


*Fig. 56*

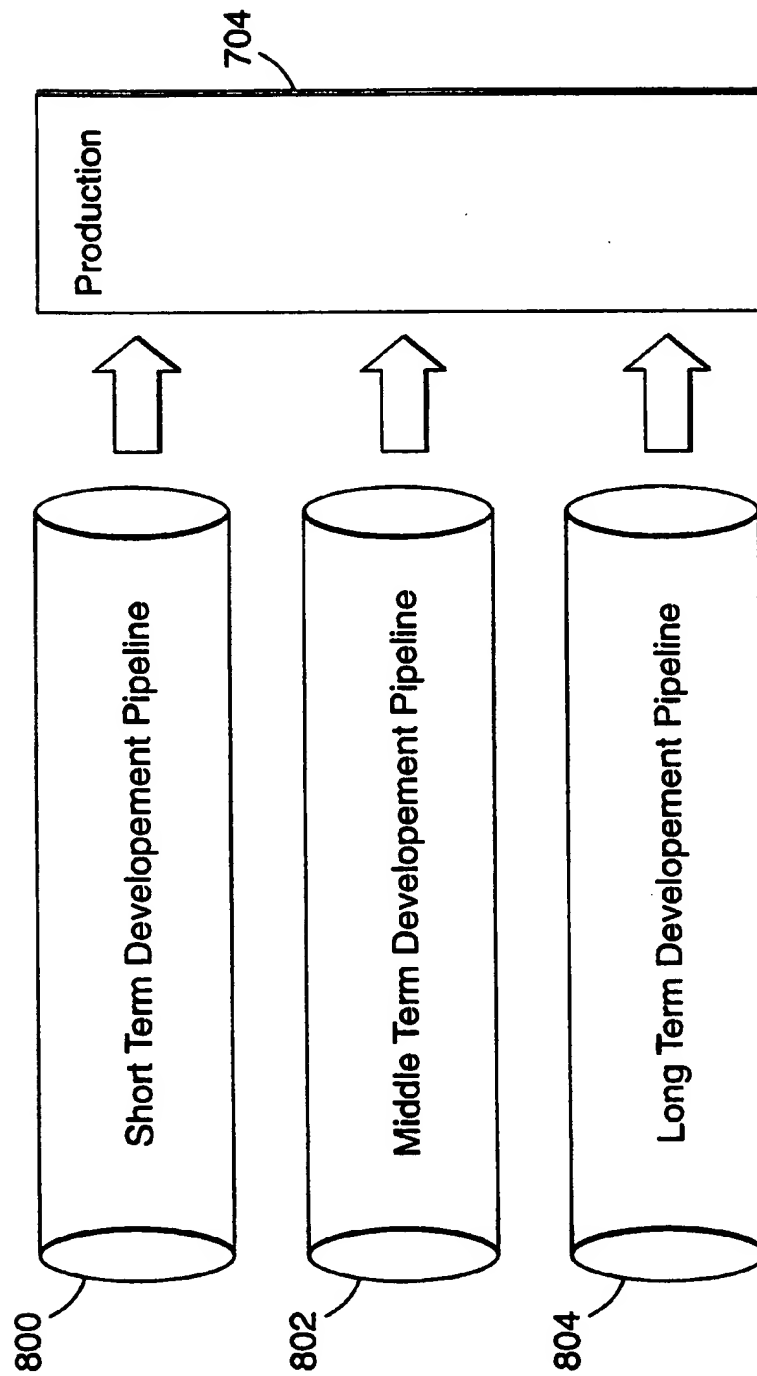




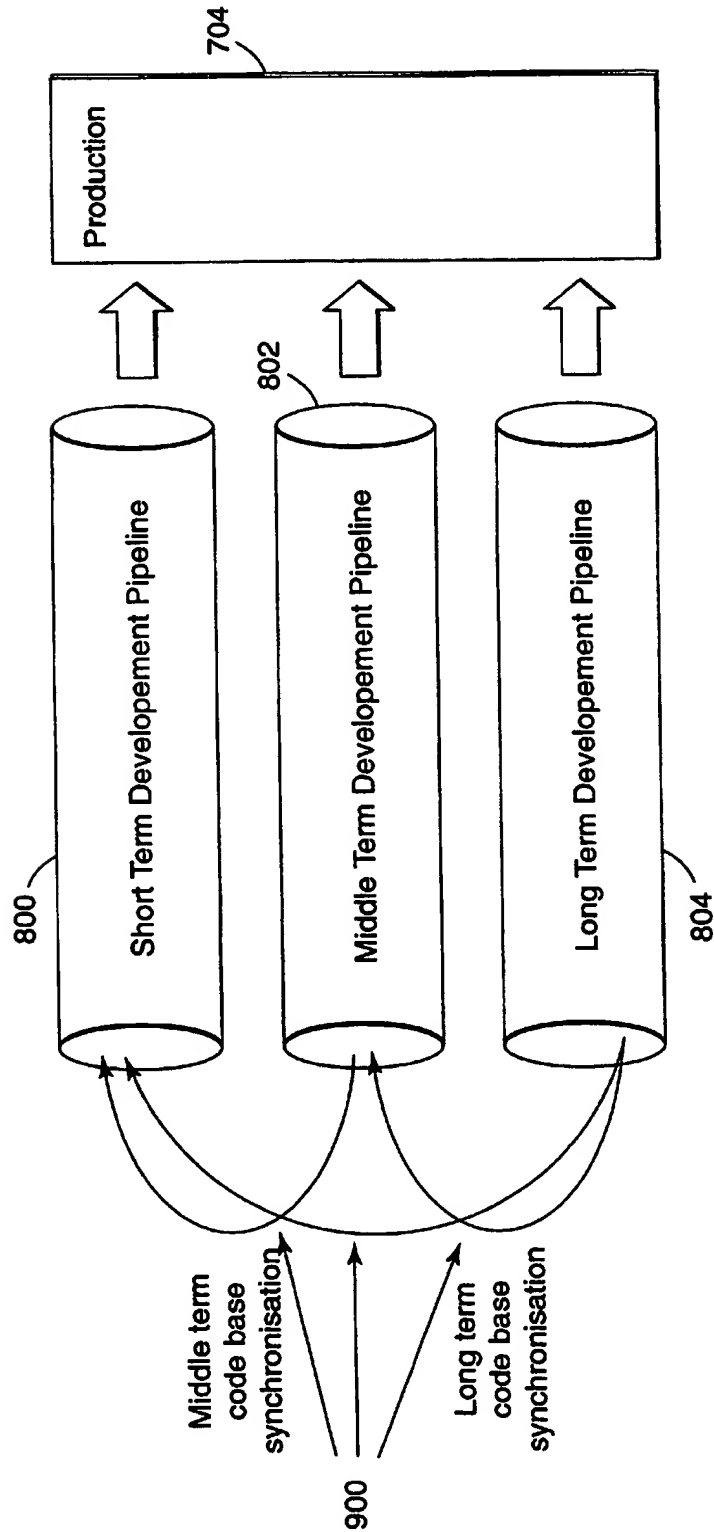
*Fig. 57*



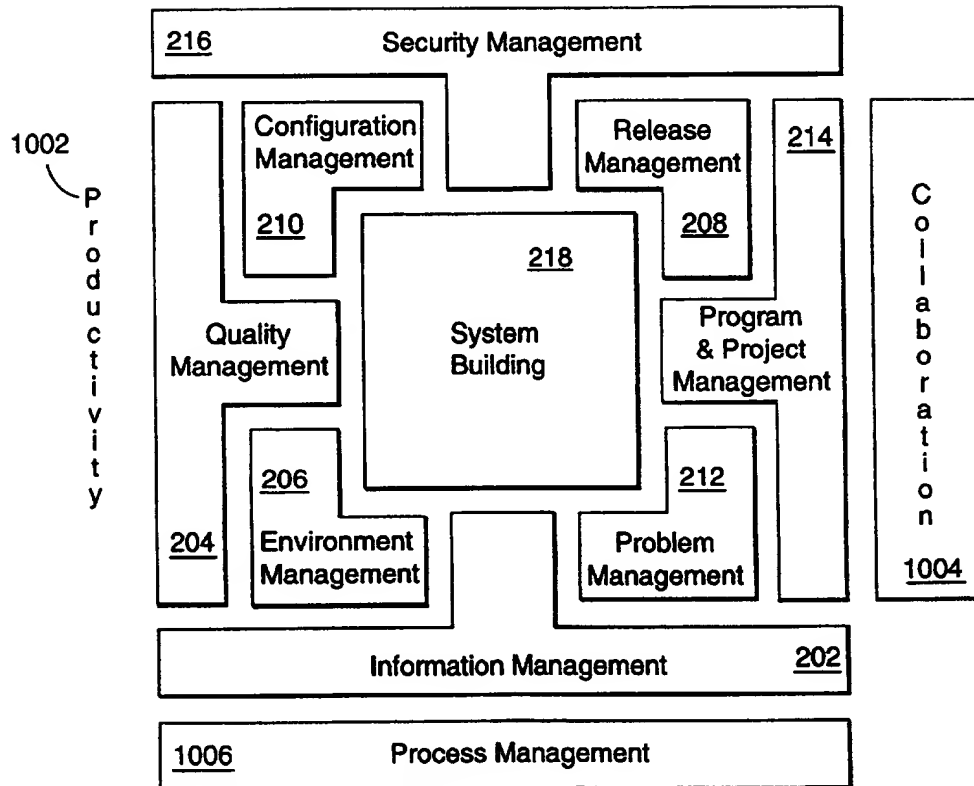
*Fig. 58*



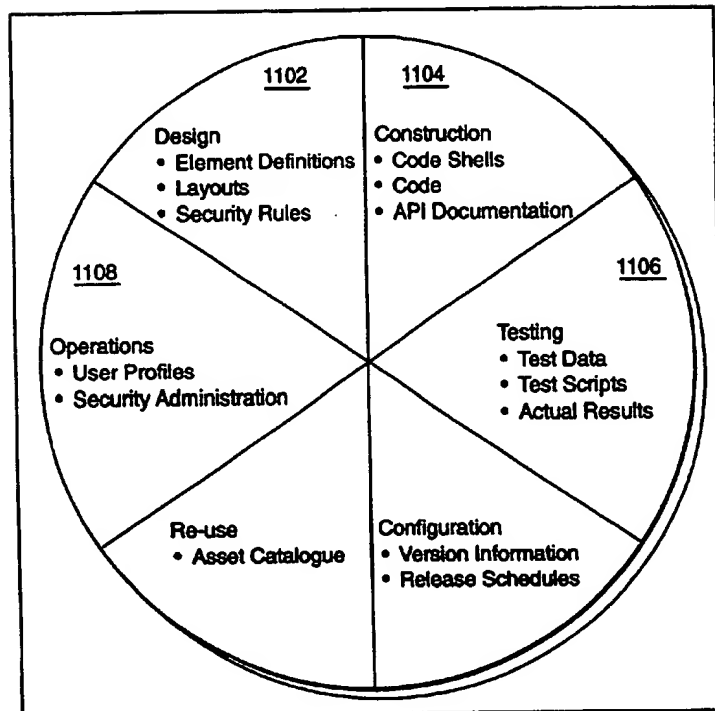
*Fig. 59*



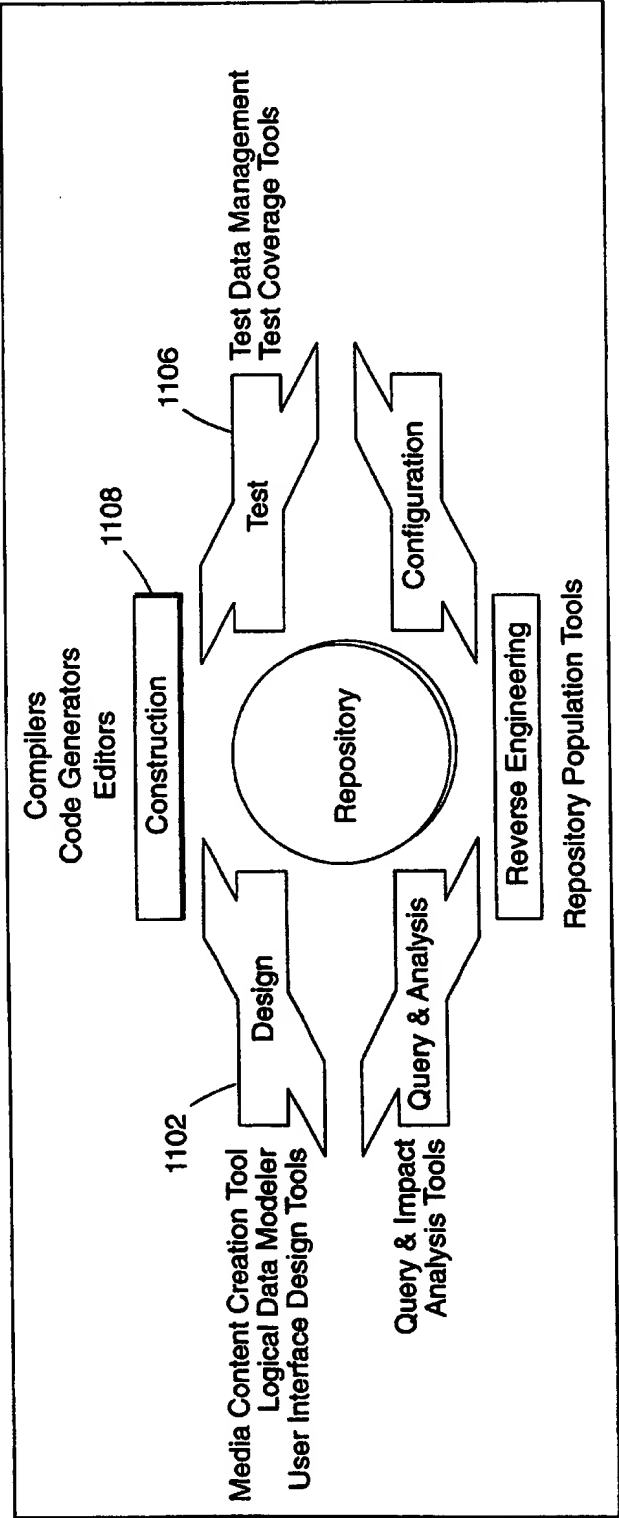
*Fig. 60*



*Fig. 61*



*Fig. 62*



*Fig. 63*





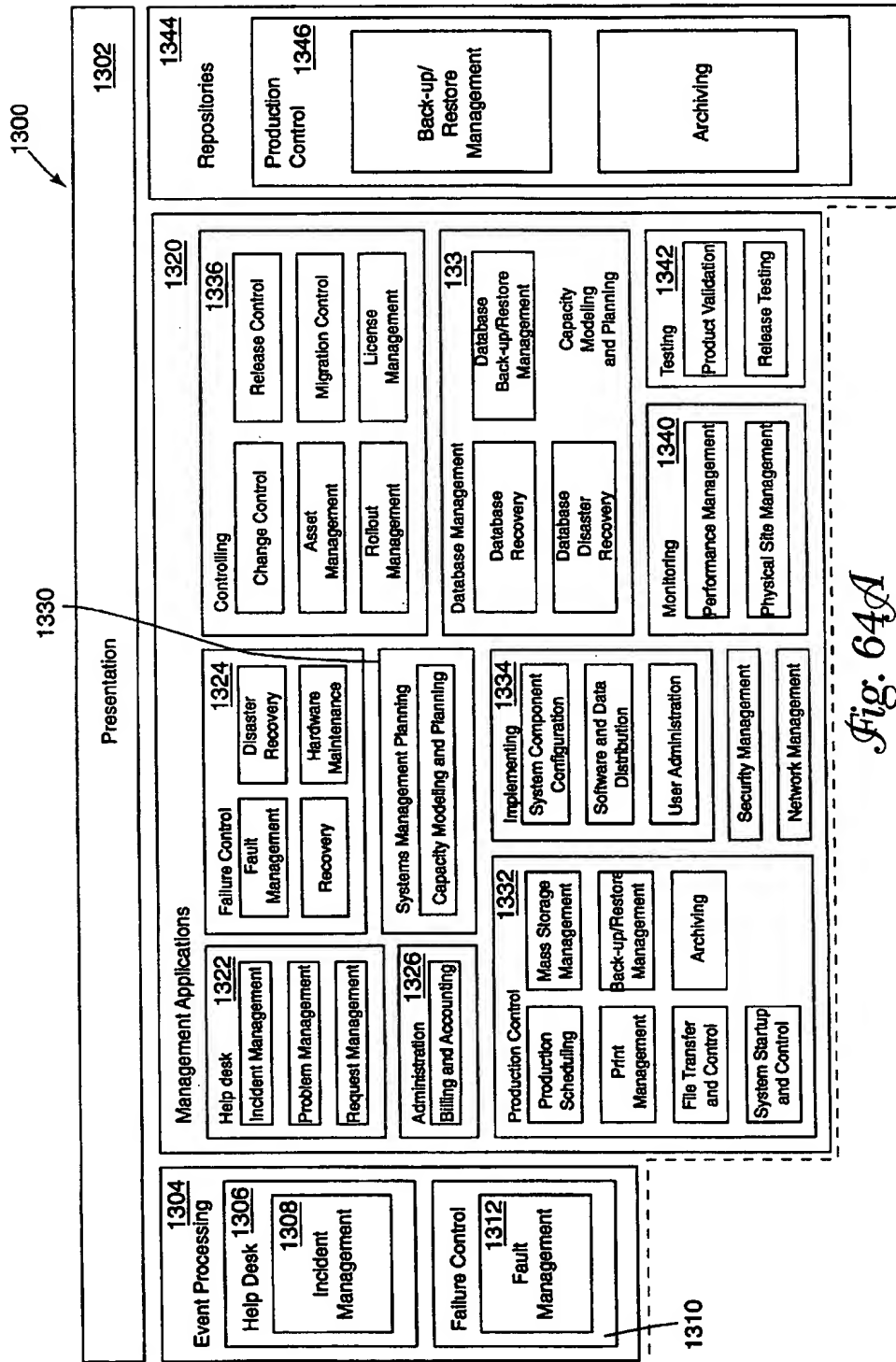
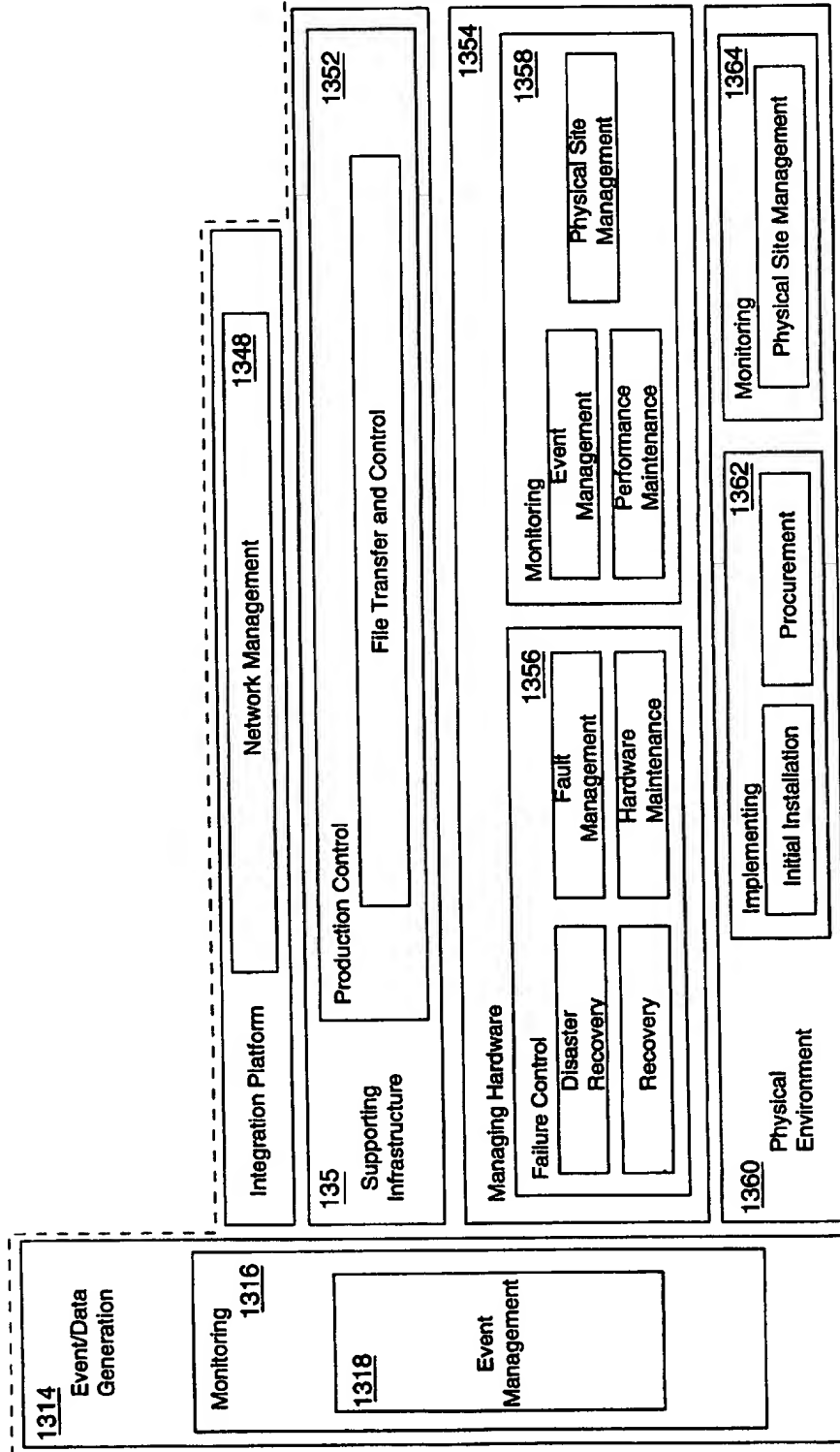
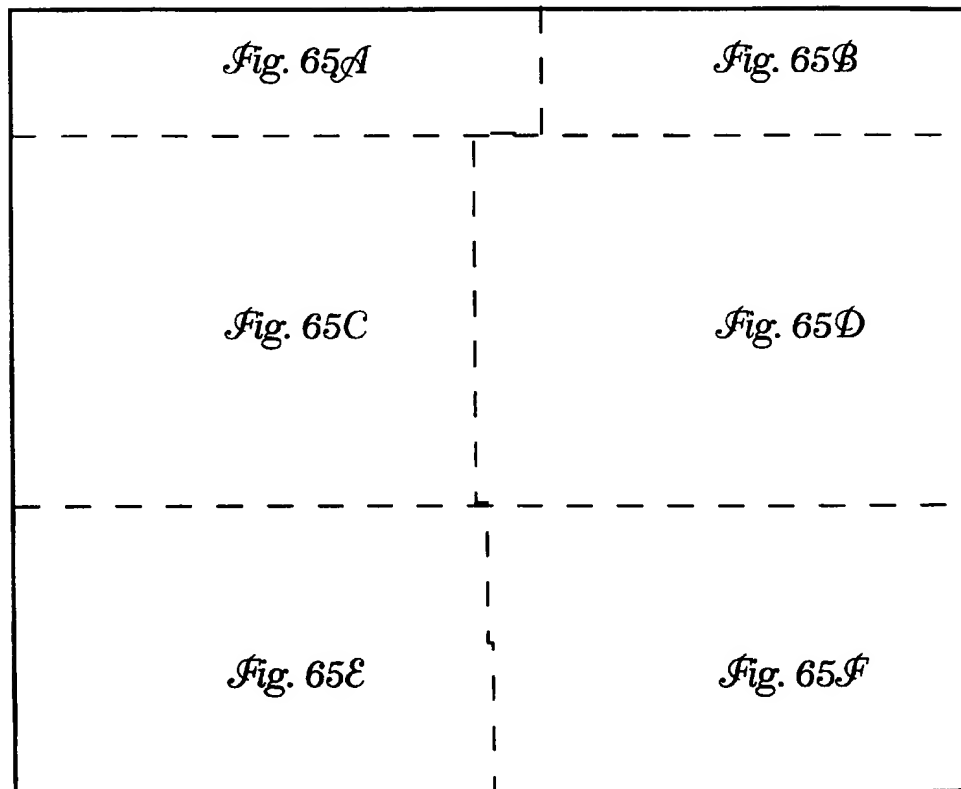


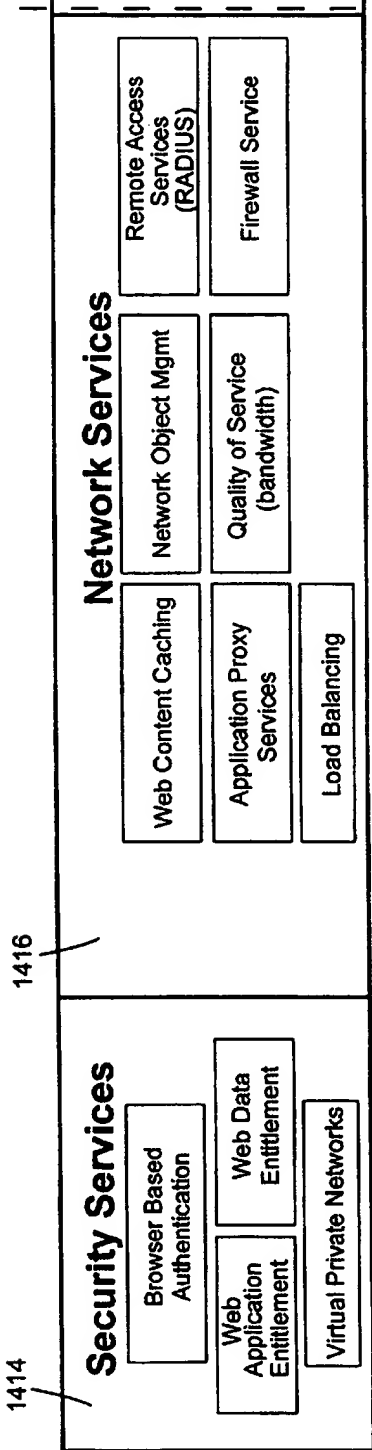
Fig. 64A



*Fig. 64B*



*Fig. 65*



*Fig. 65A*

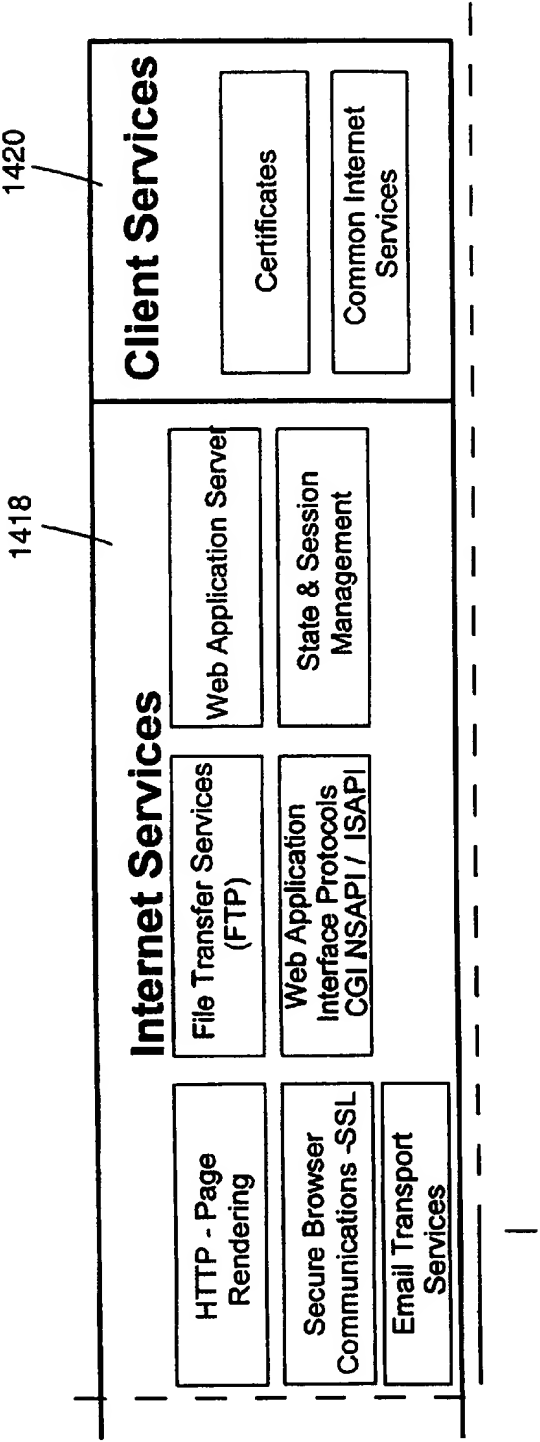


Fig. 65B

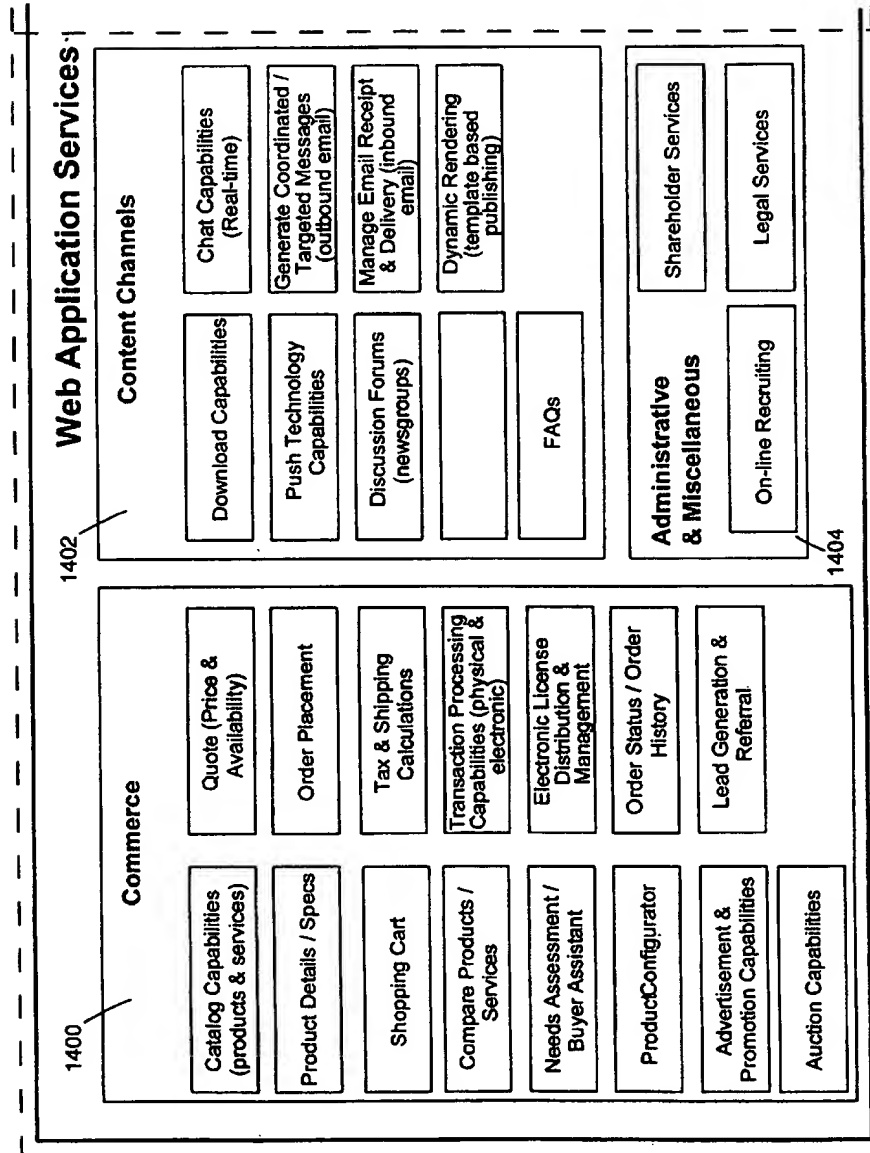


Fig. 65C

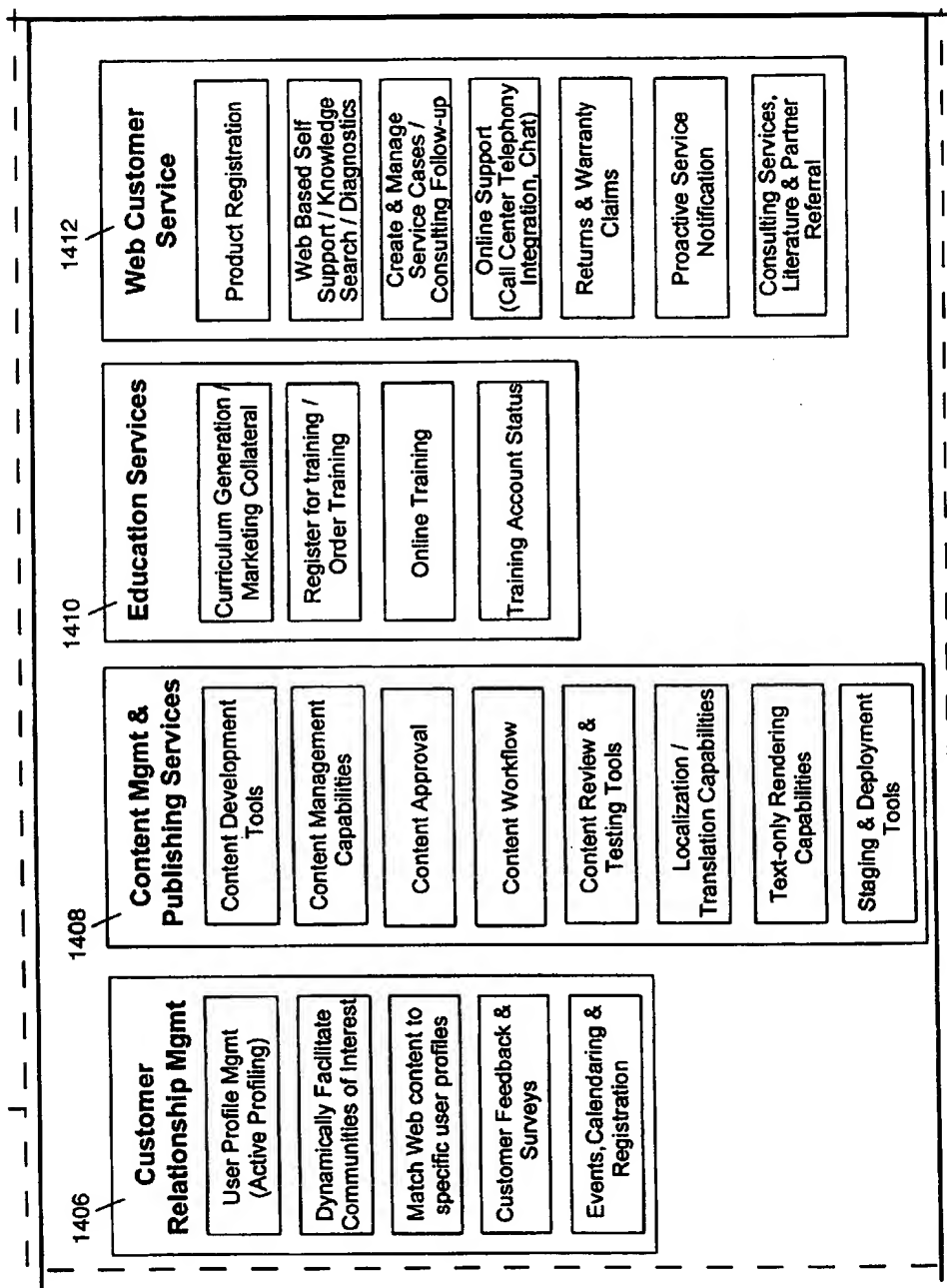


Fig. 65D

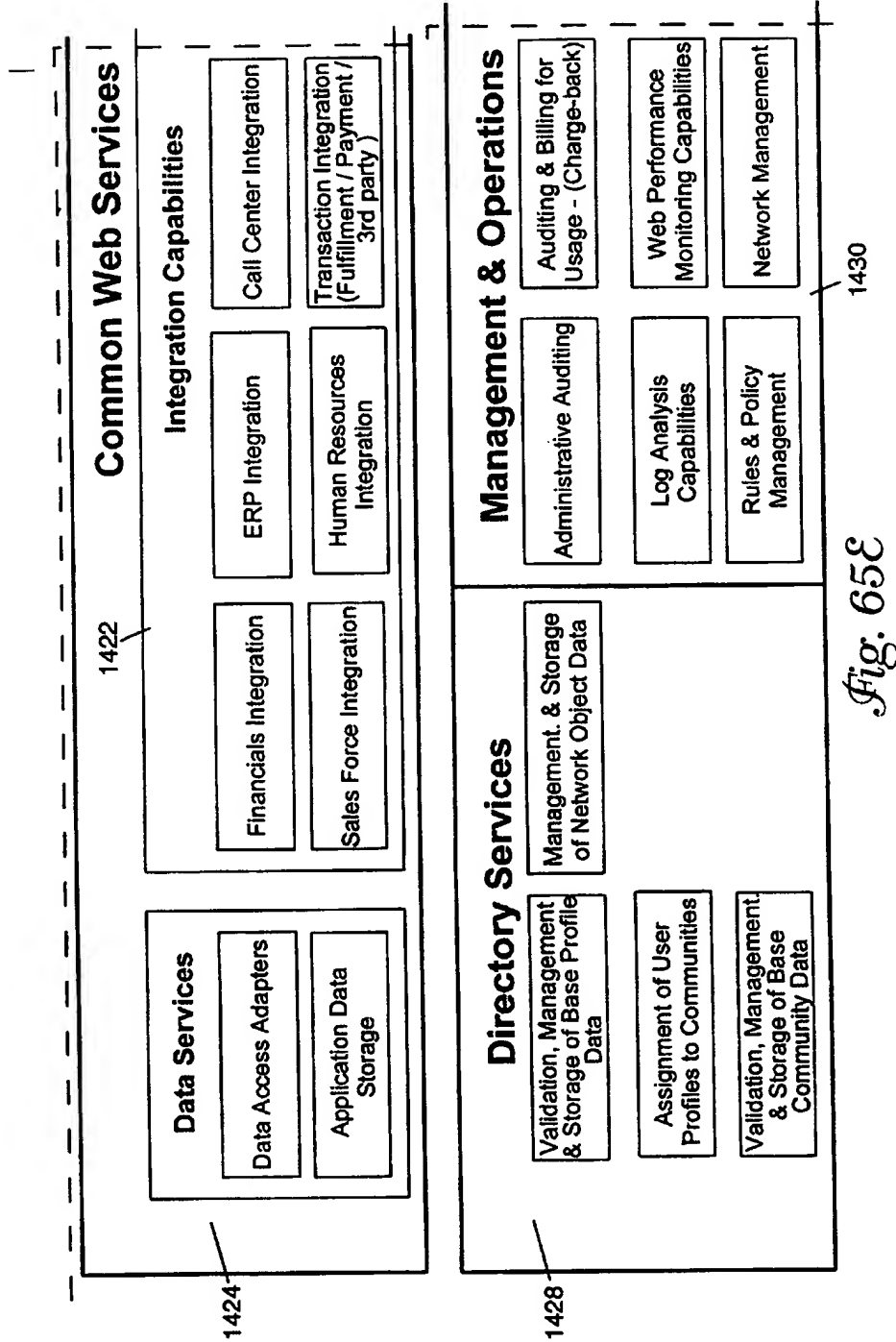
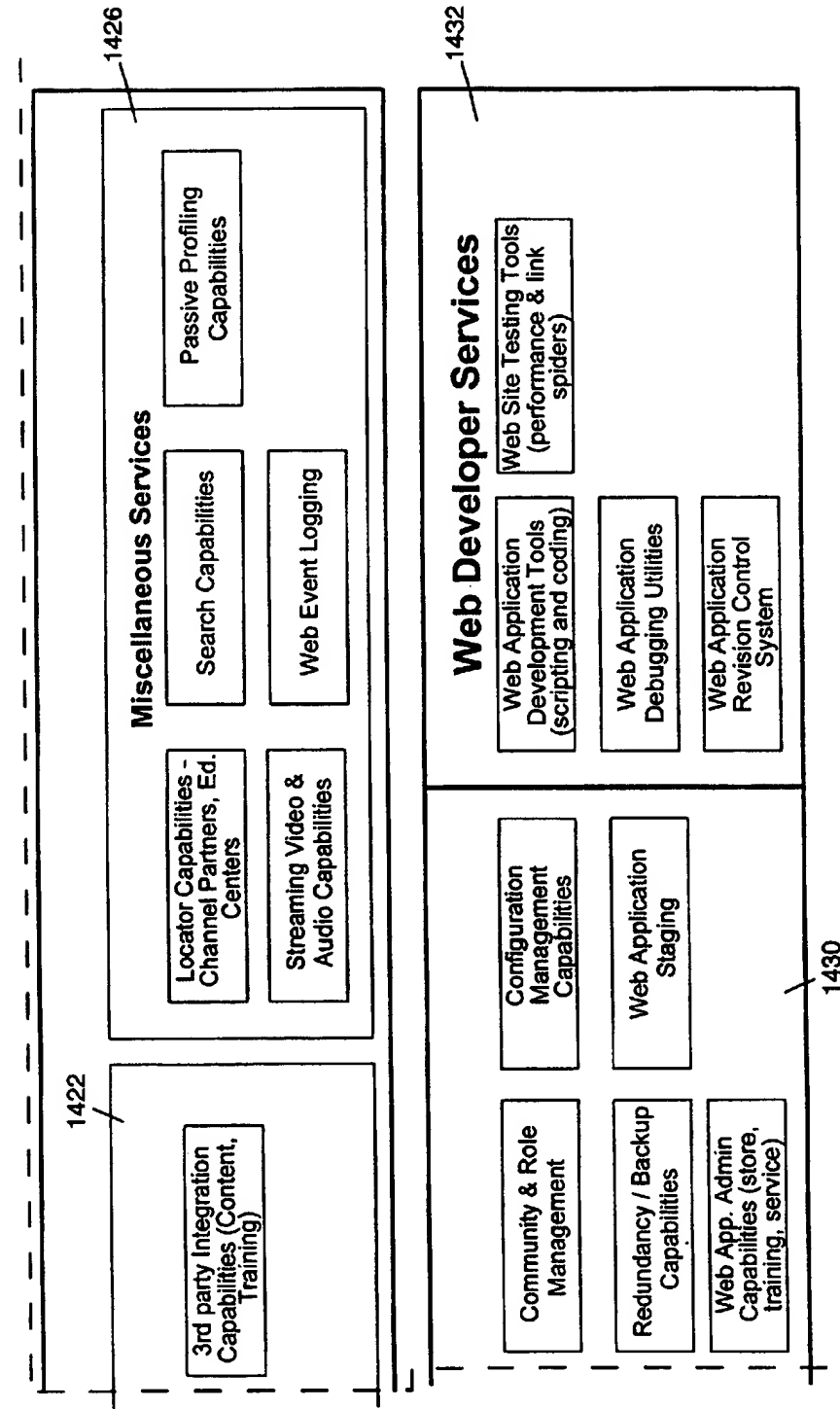
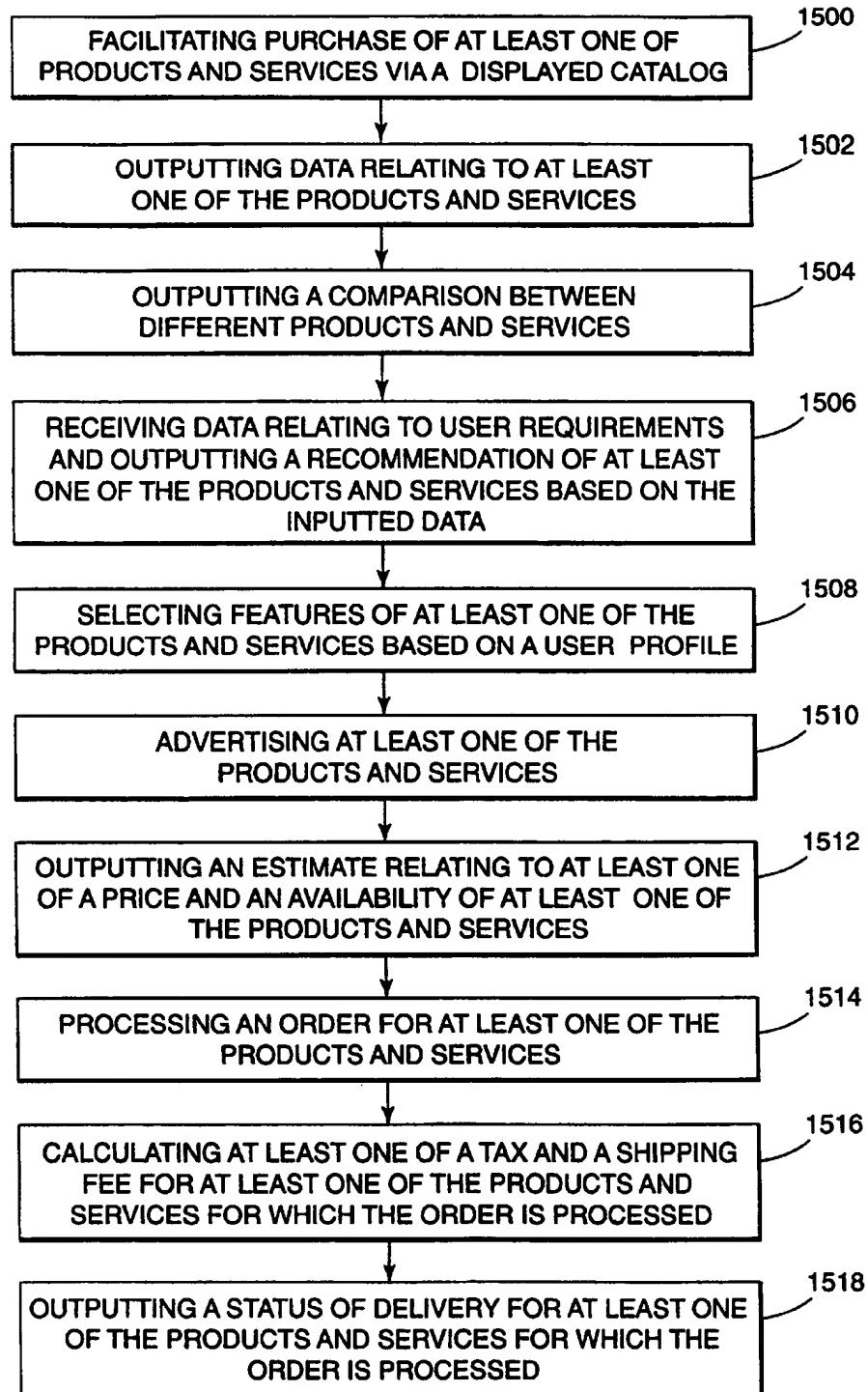


Fig. 65E

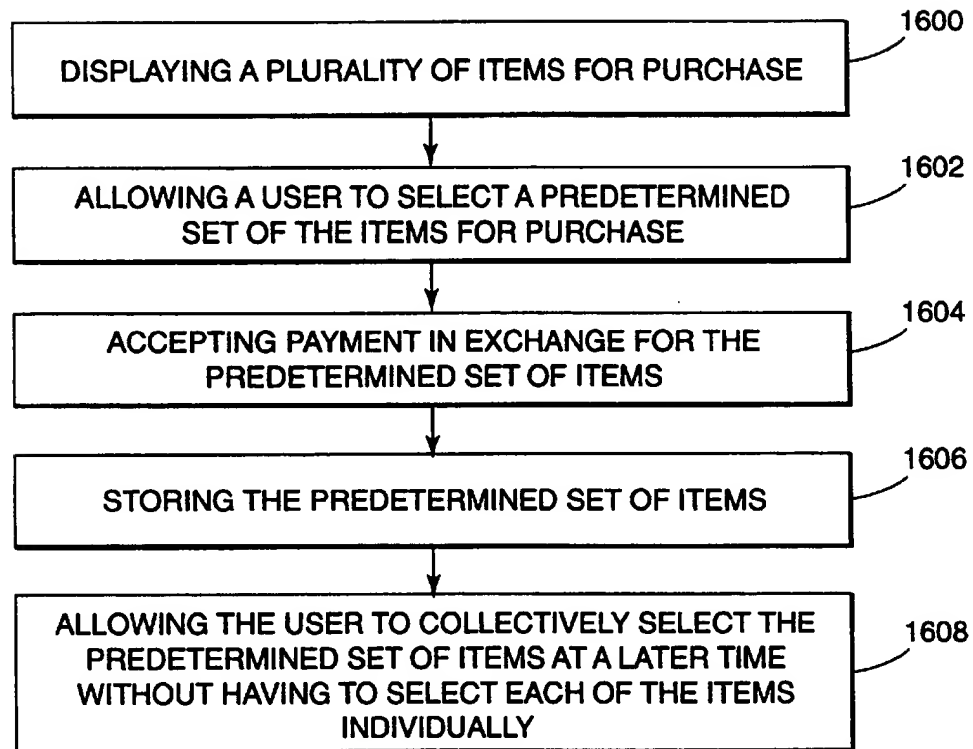




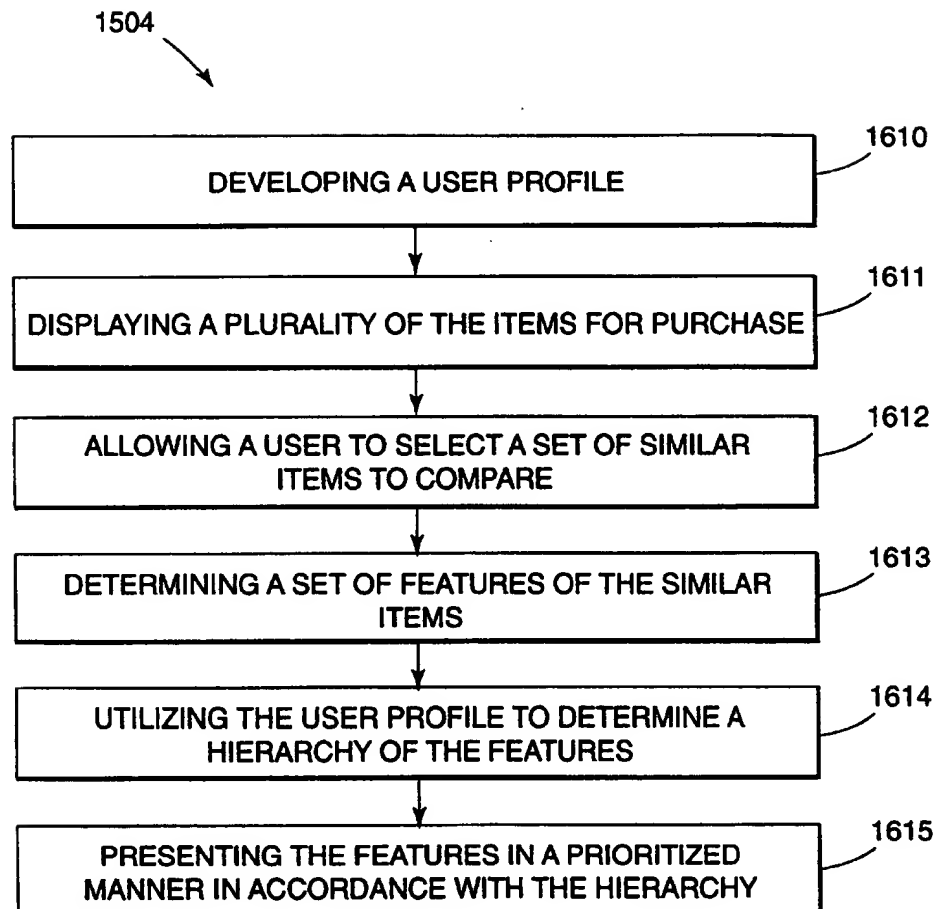
*Fig. 65F*



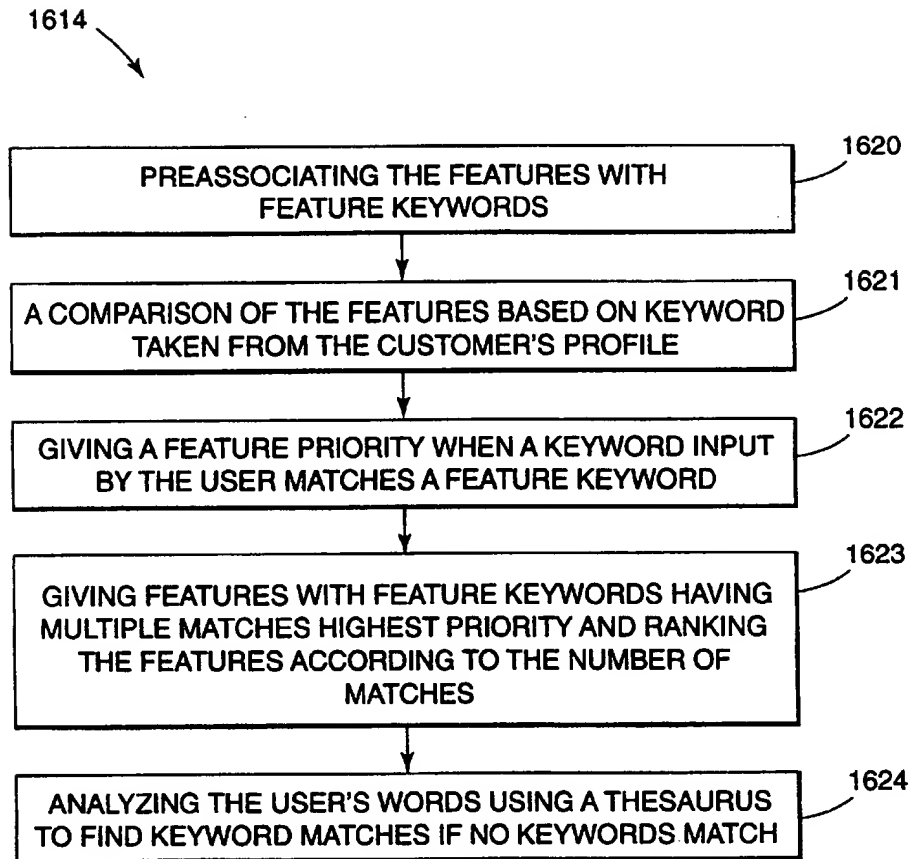
*Fig. 66*



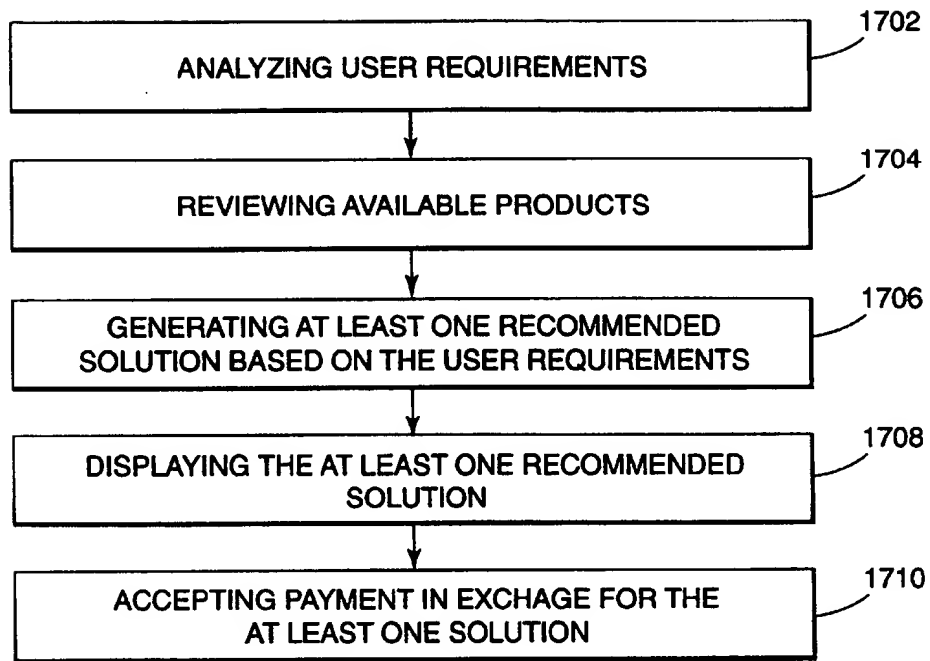
*Fig. 67*



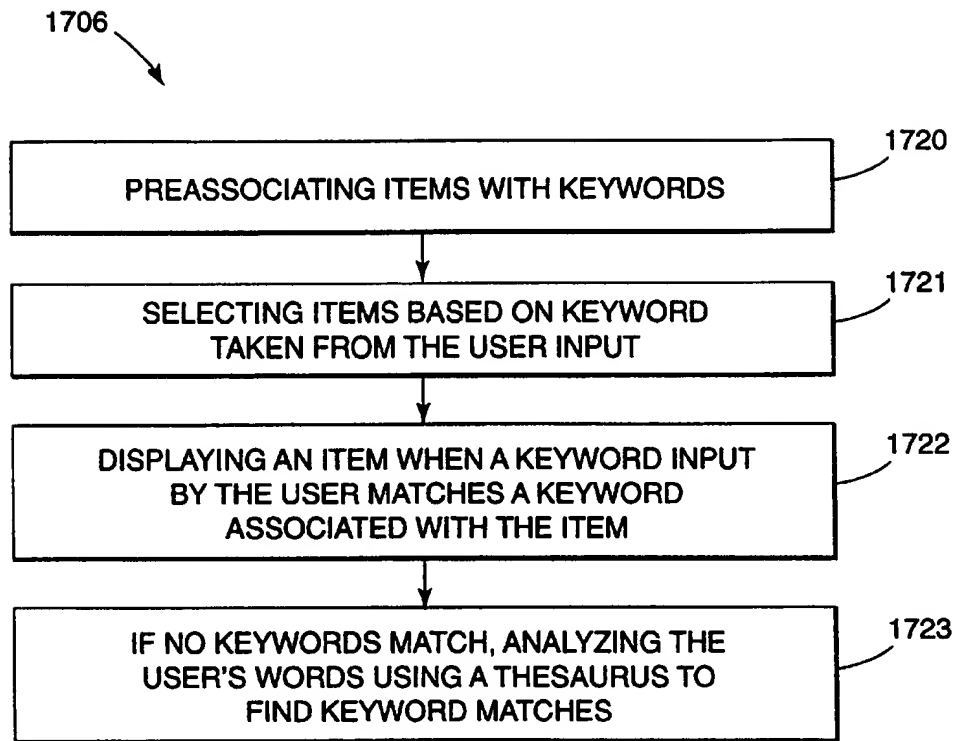
*Fig. 68*



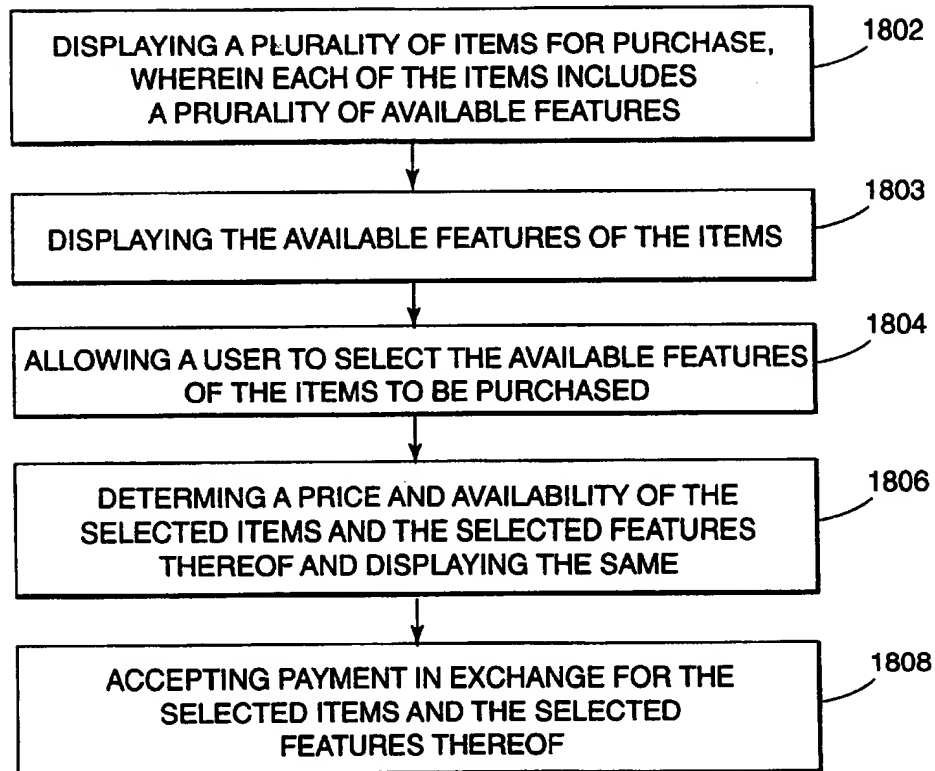
*Fig. 69*



*Fig. 70*

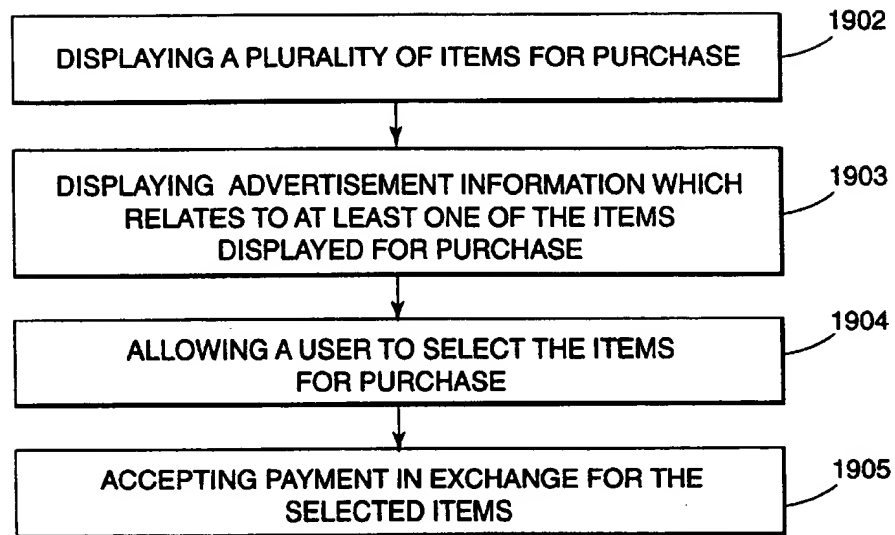


*Fig. 71*

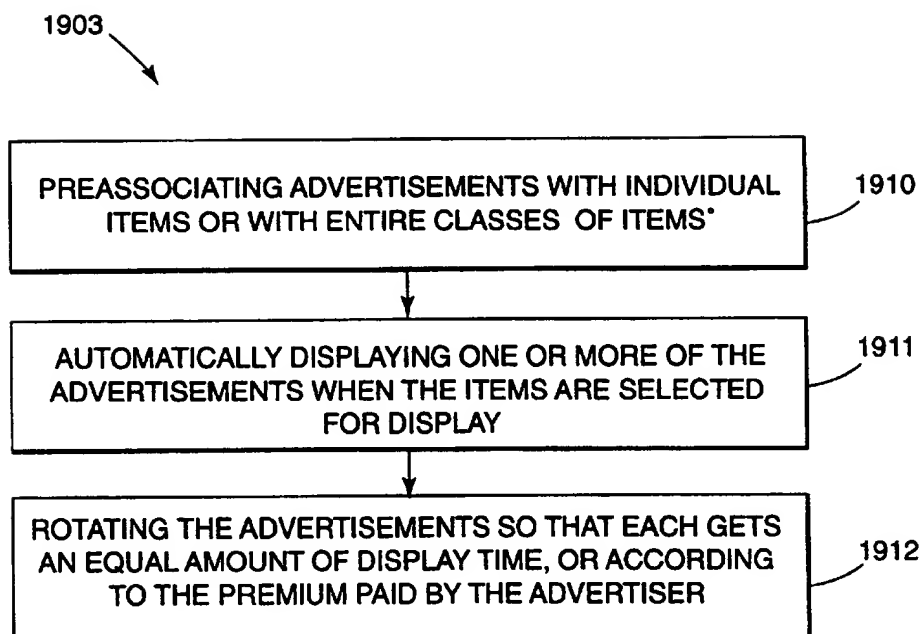


*Fig. 72*

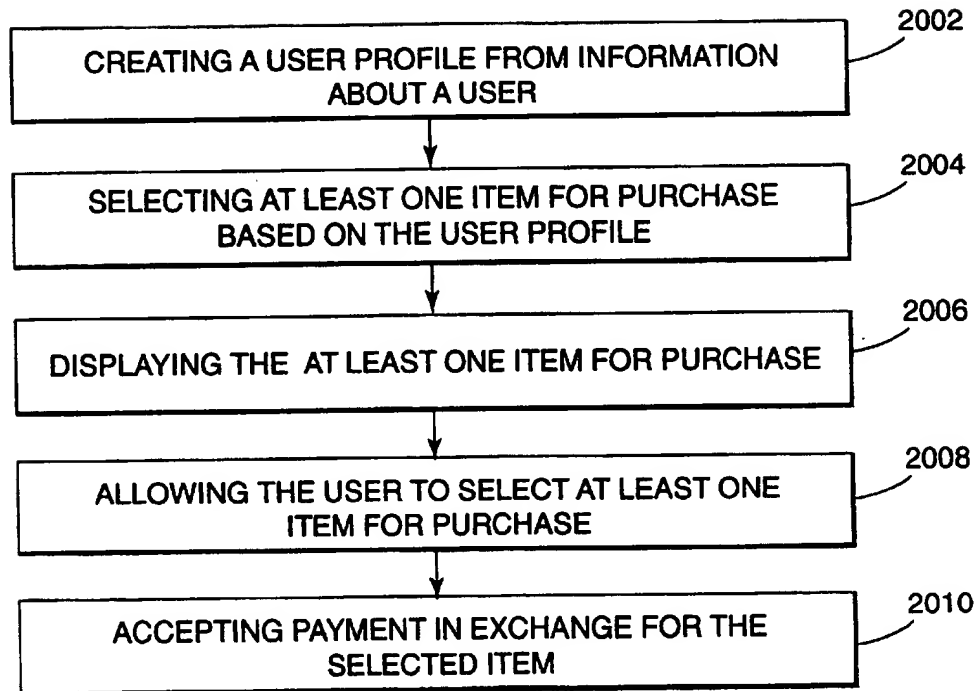




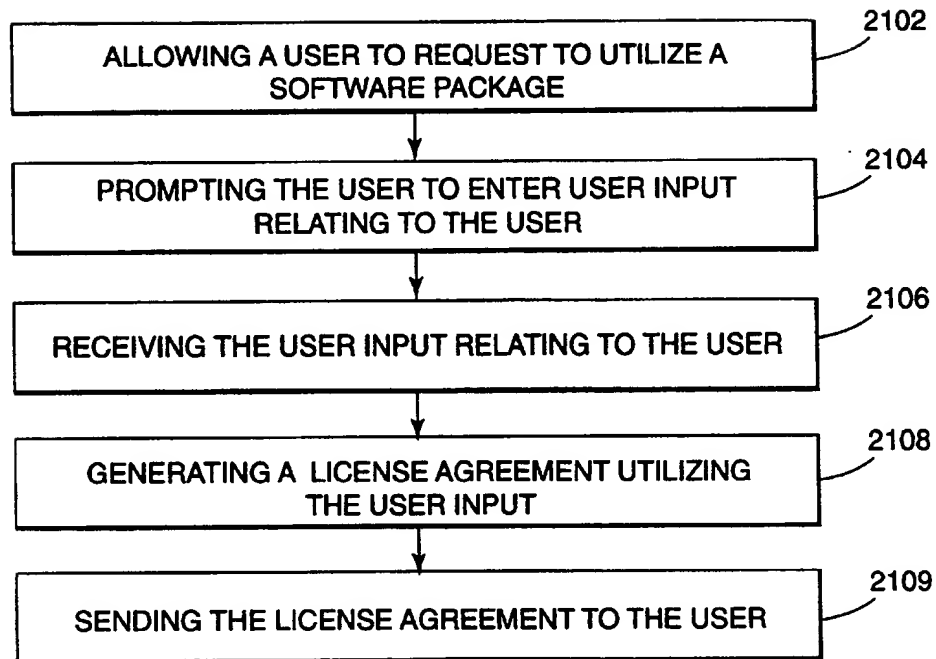
*Fig. 73*



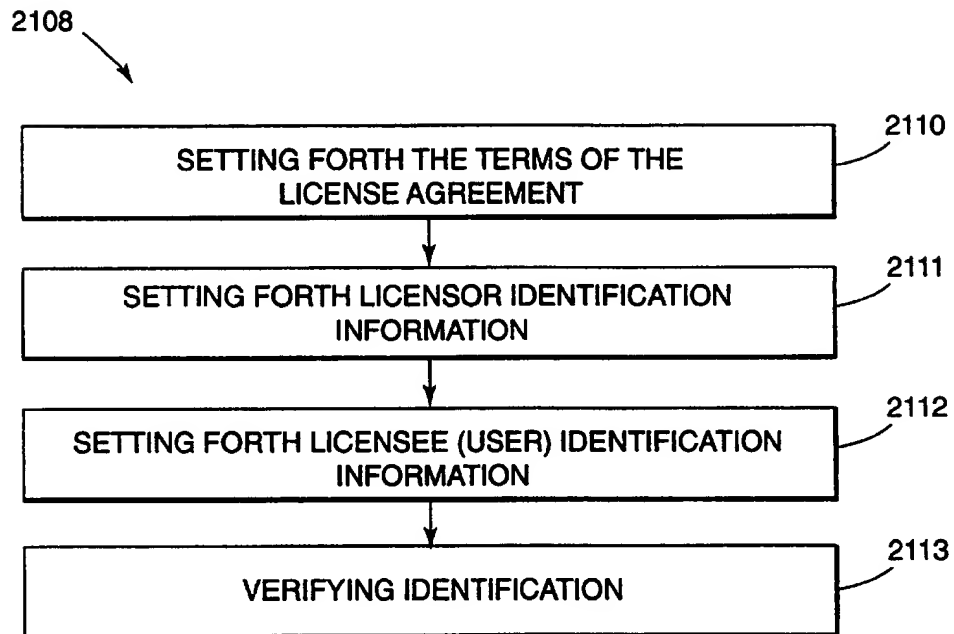
*Fig. 74*



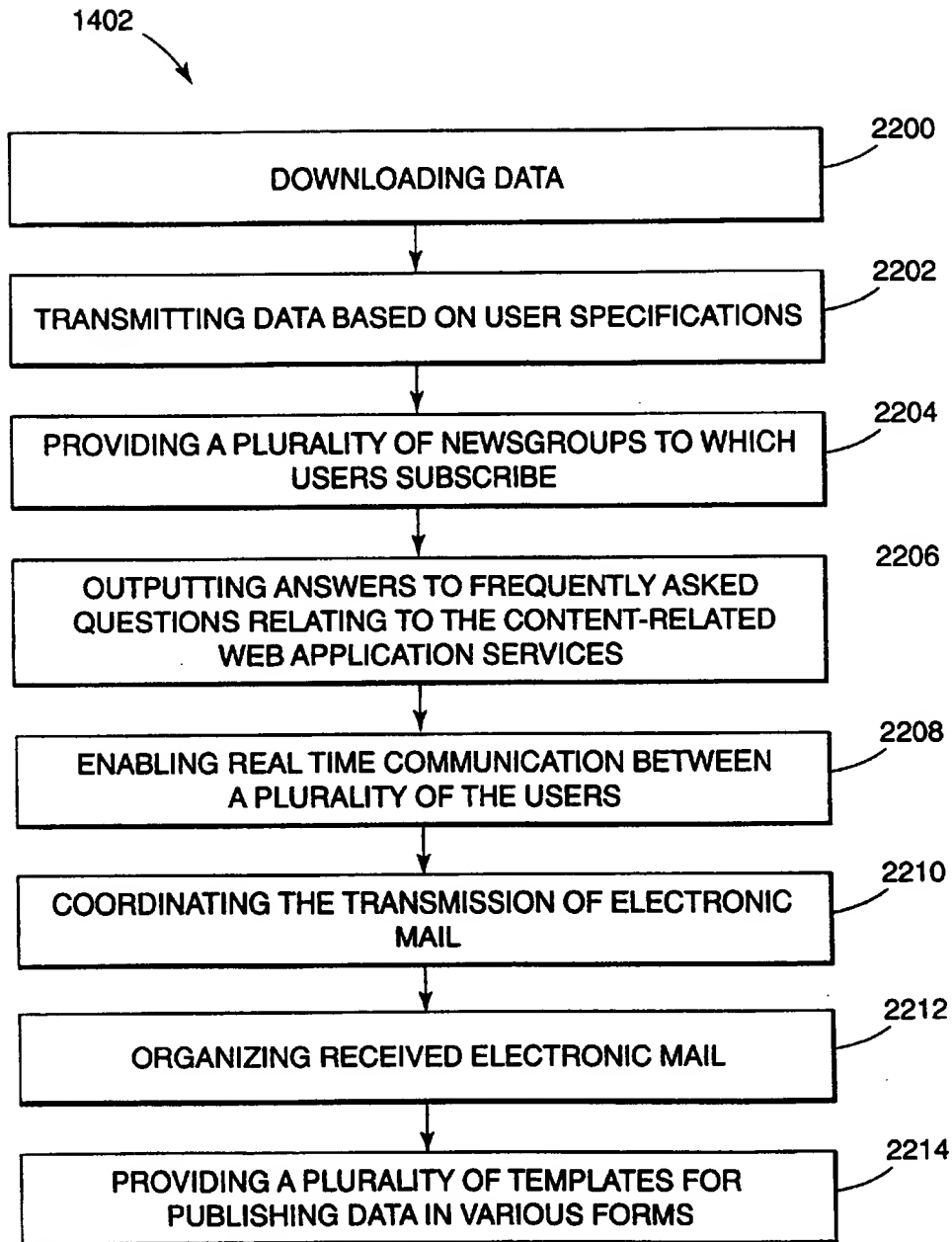
*Fig. 75*



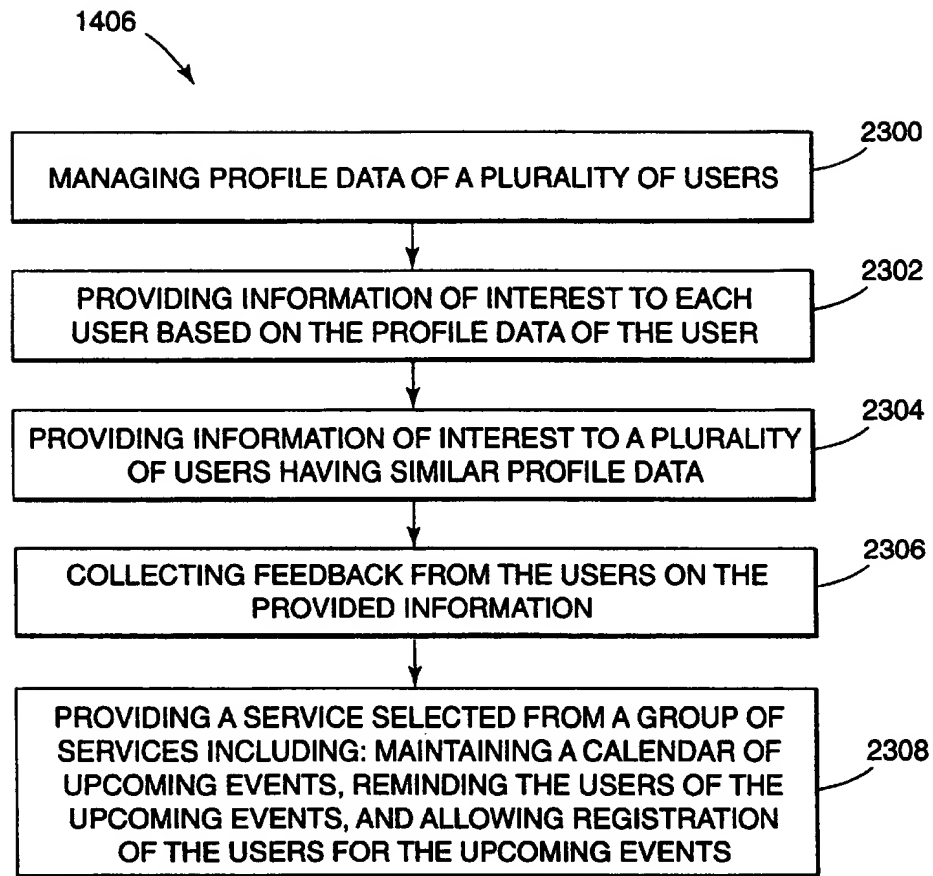
*Fig. 76*



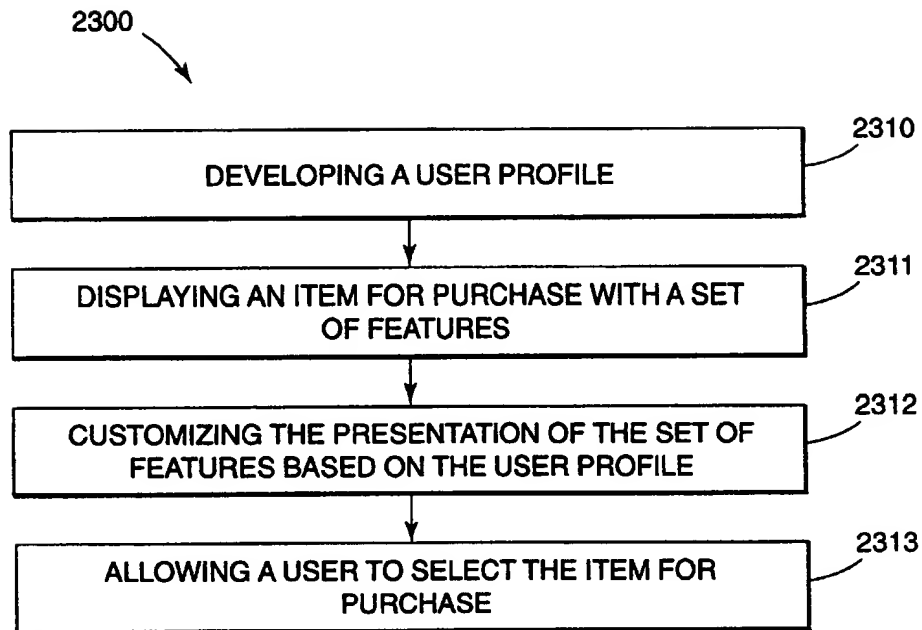
*Fig. 77*



*Fig. 78*

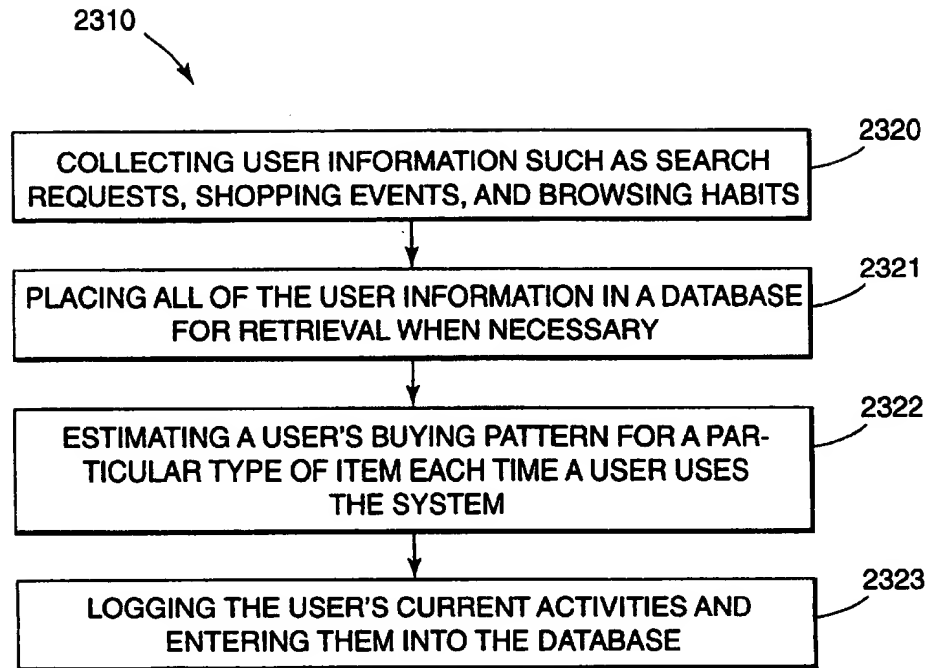


*Fig. 79*

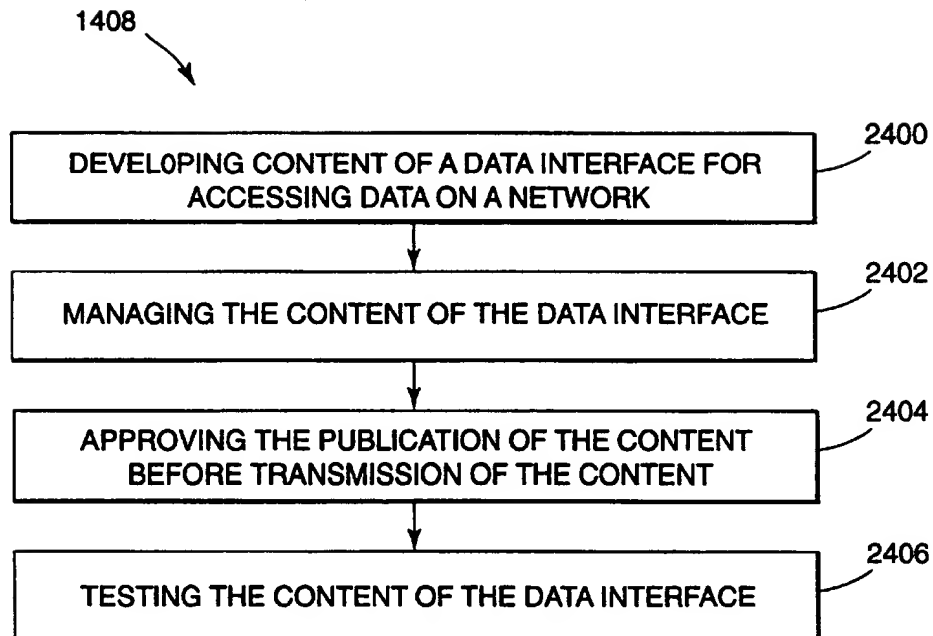


*Fig. 80*

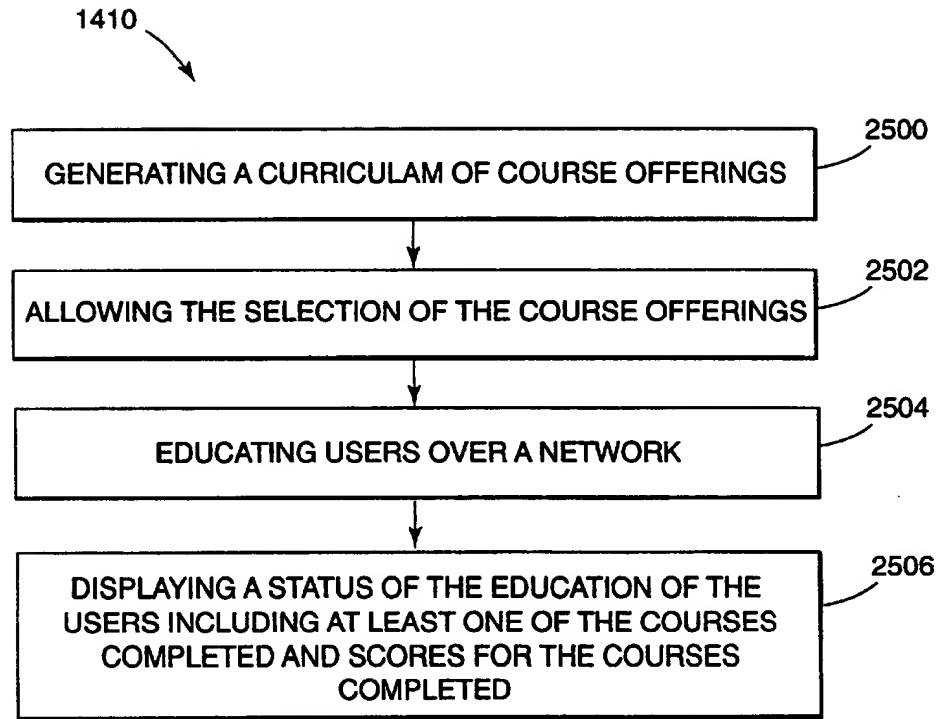




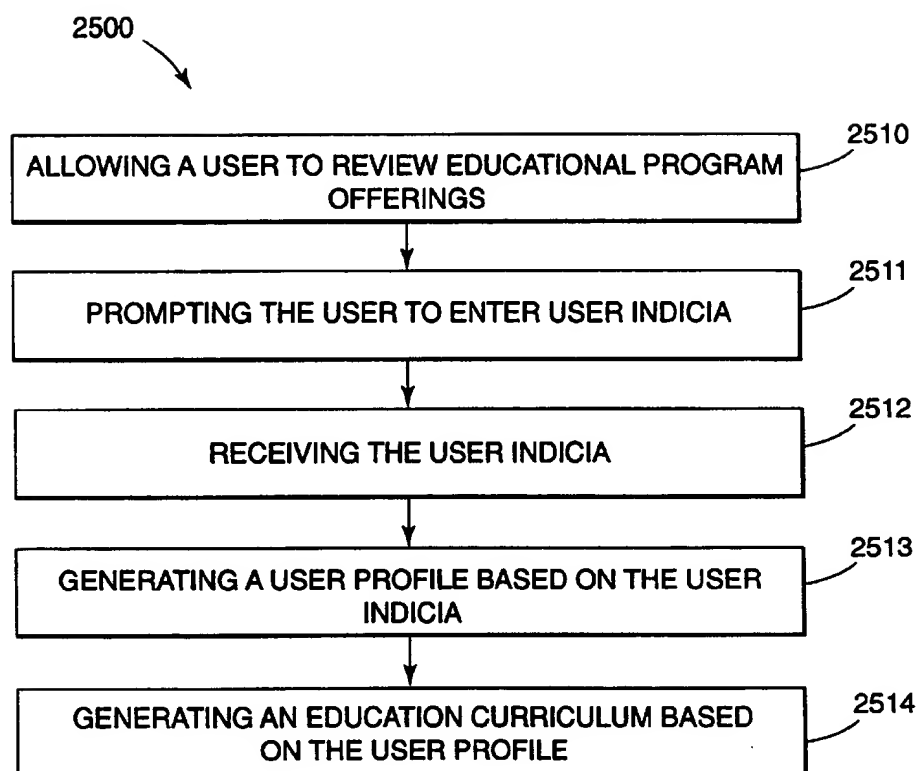
*Fig. 81*



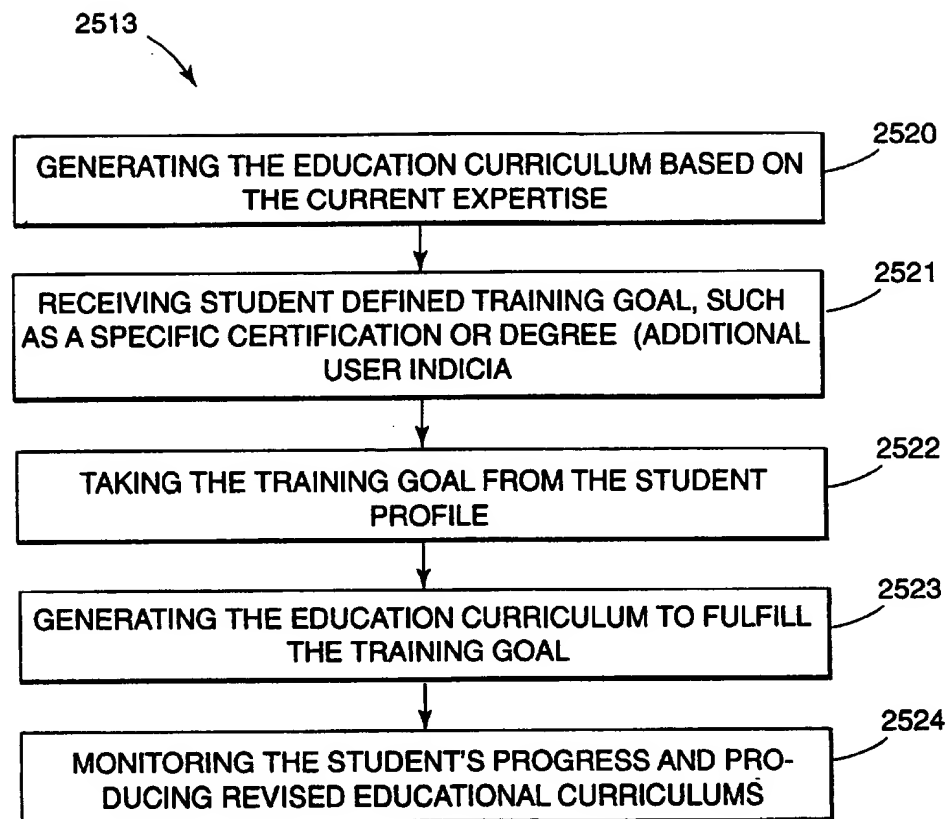
*Fig. 82*



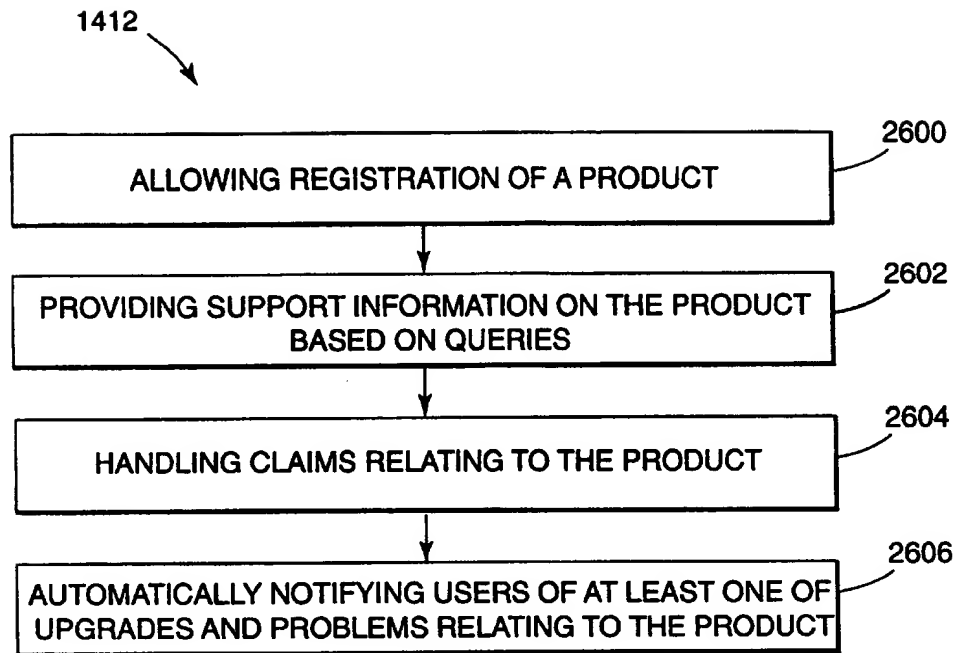
*Fig. 83*



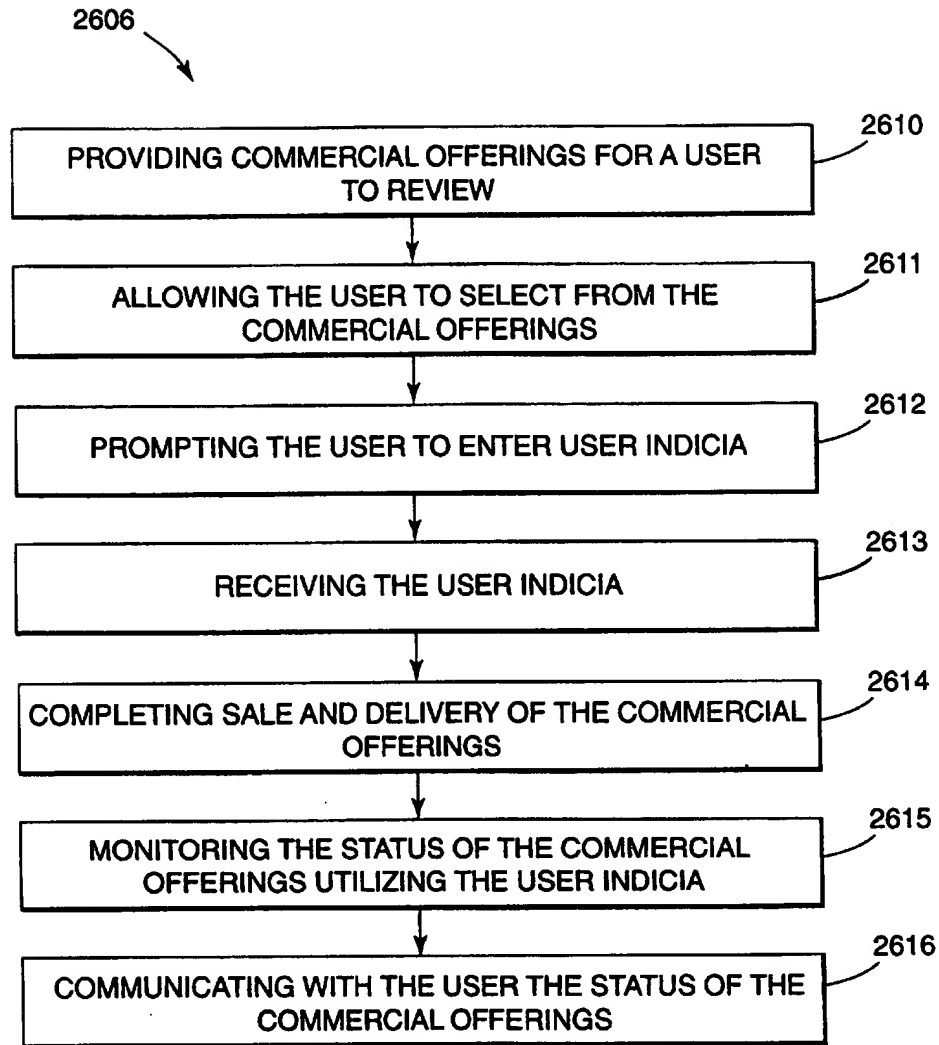
*Fig. 84*



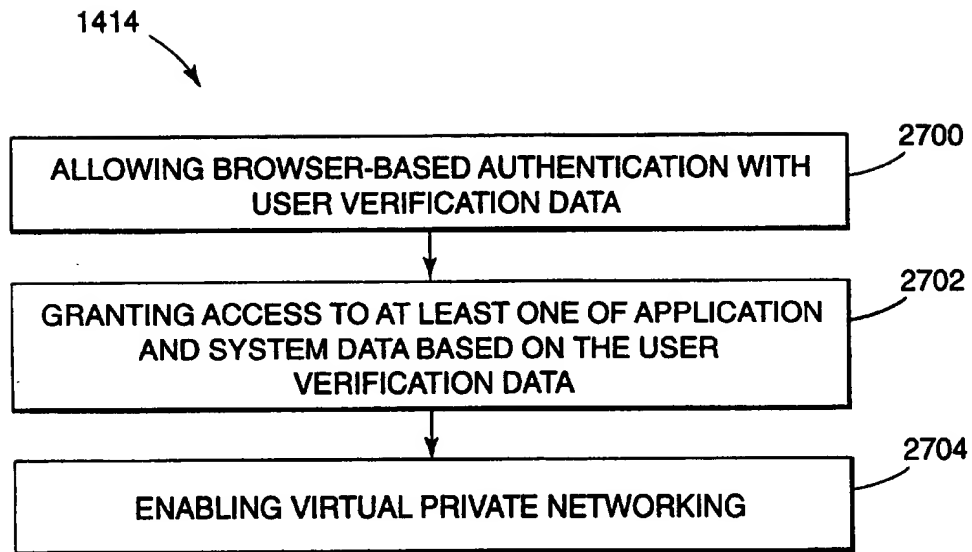
*Fig. 85*



*Fig. 86*

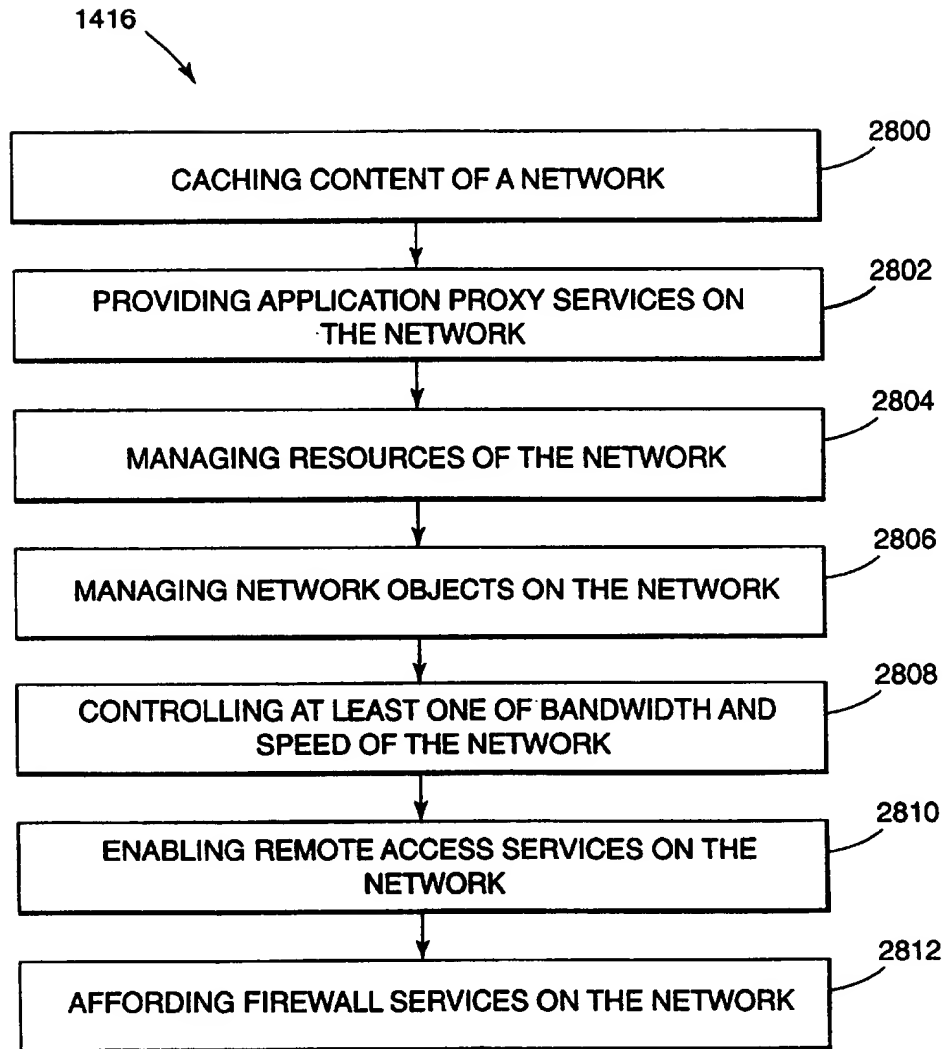


*Fig. 87*

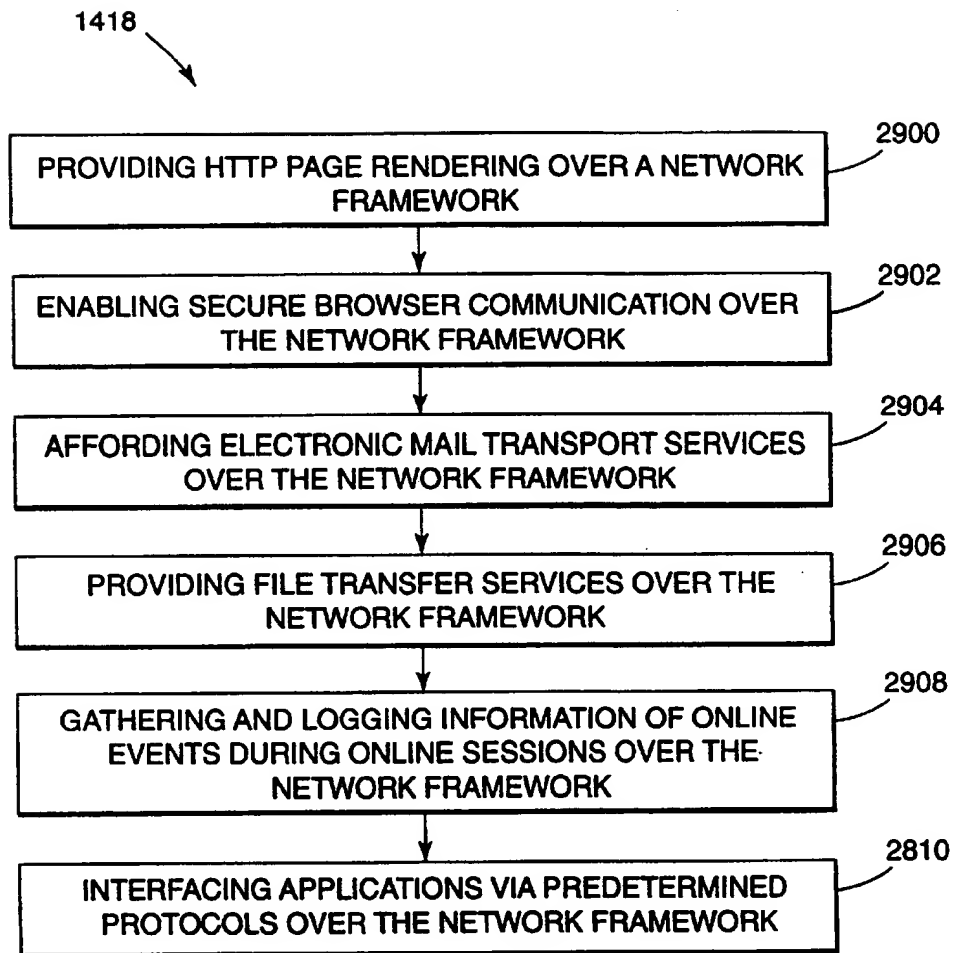


*Fig. 88*

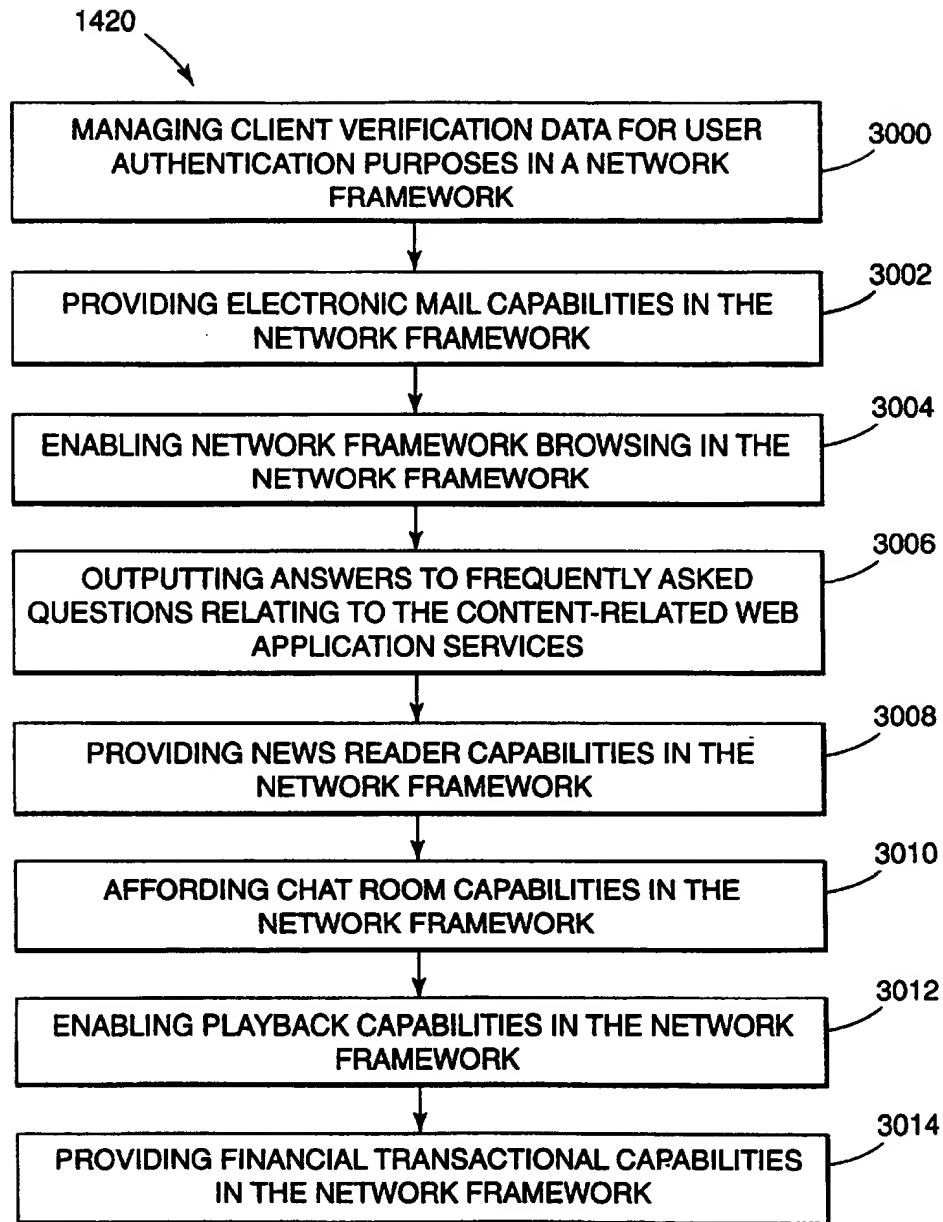




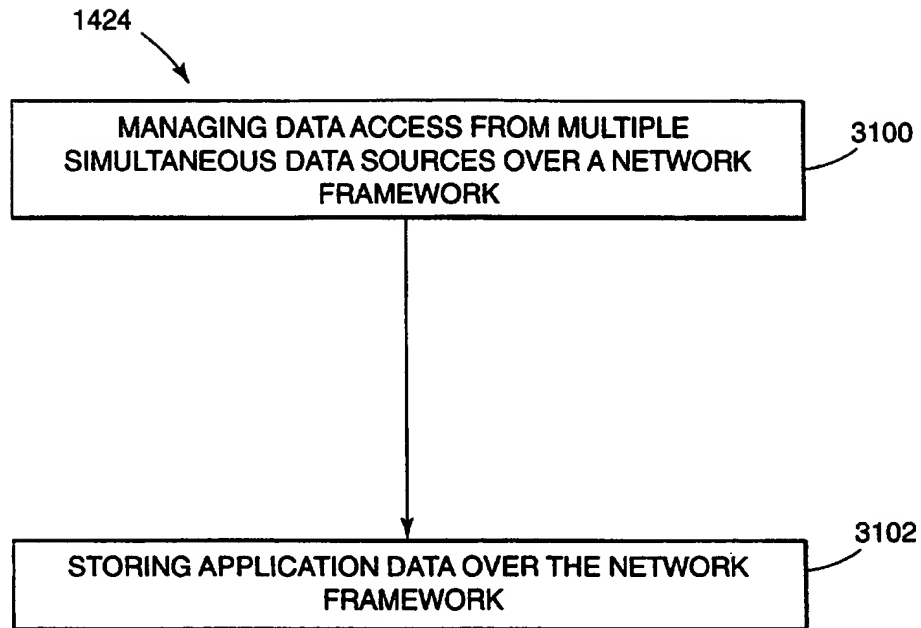
*Fig. 89*



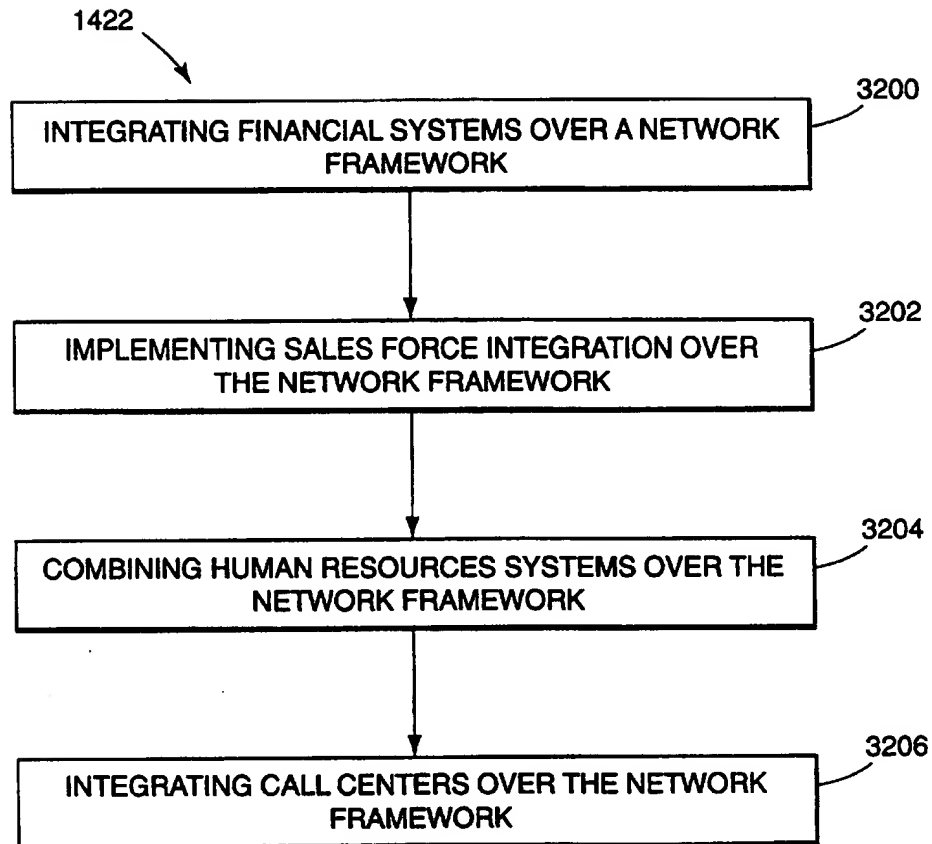
*Fig. 90*



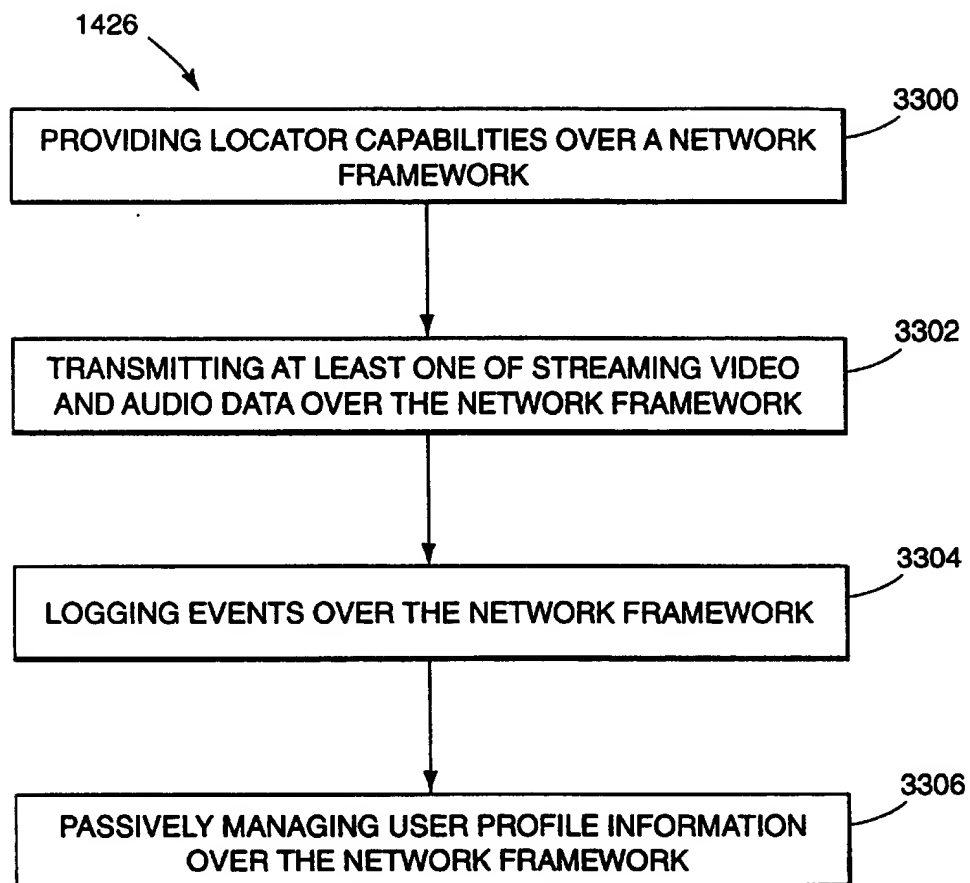
*Fig. 91*



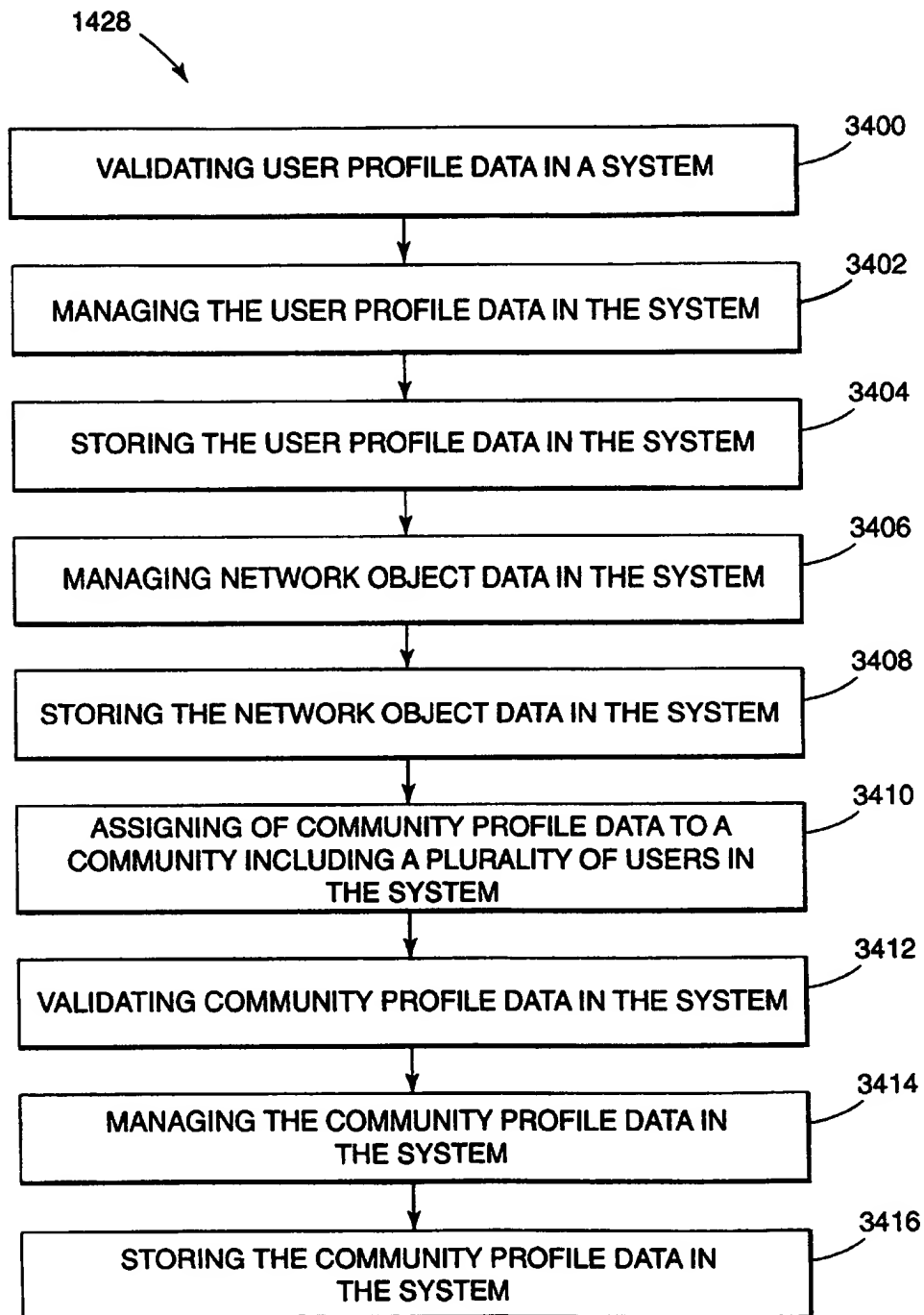
*Fig. 92*



*Fig. 93*

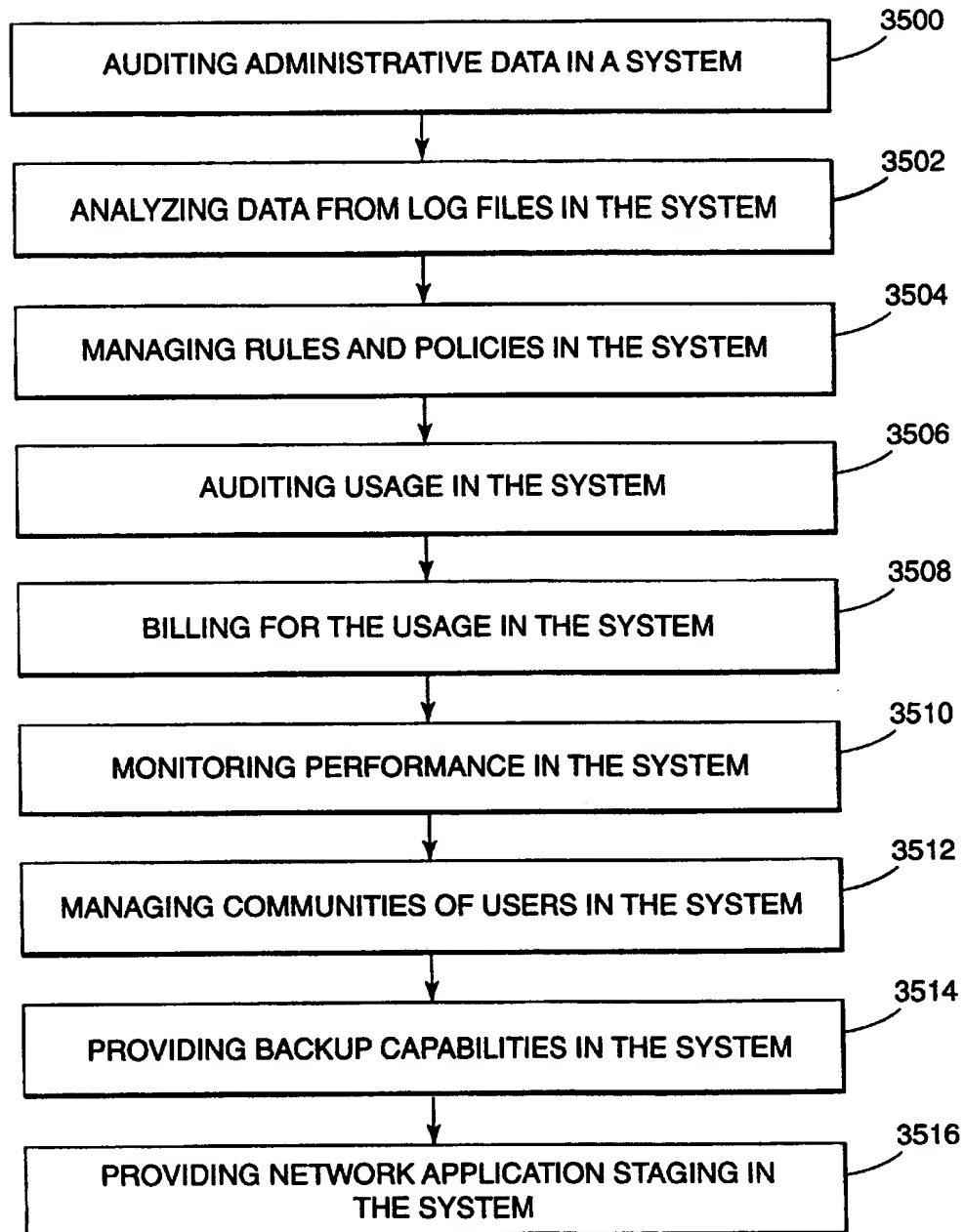


*Fig. 94*



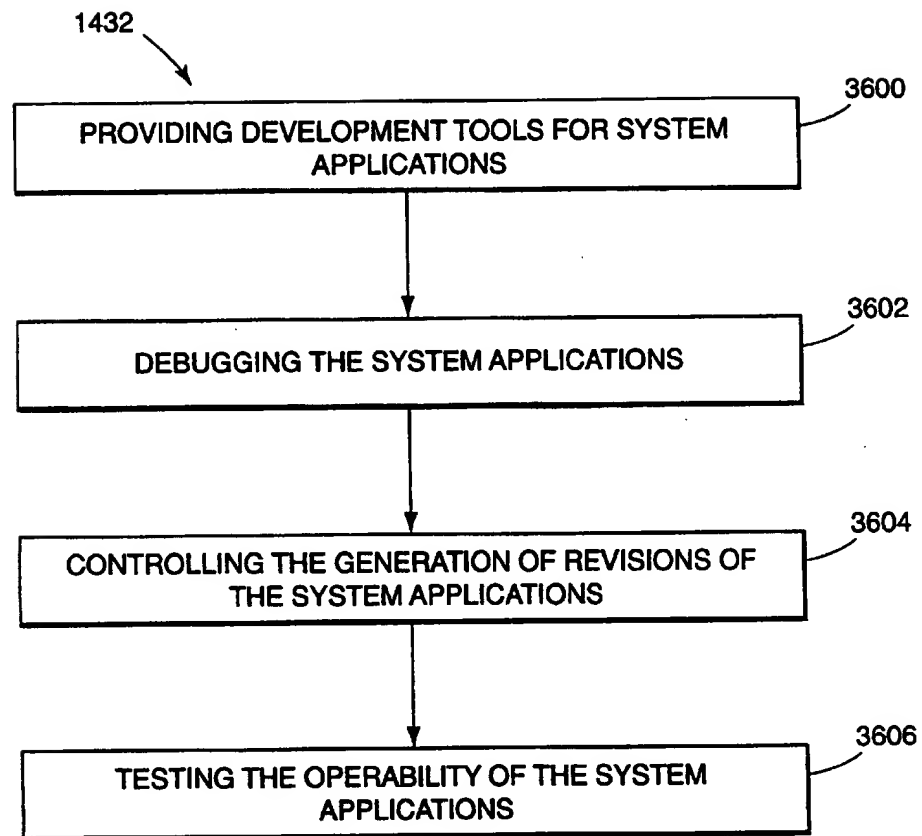
*Fig. 95*

1430



*Fig. 96*





*Fig. 97*